Customer will need to provide core for overhaul in the event that our supplier does not have cores available to overhaul

REPLACEMENT CARBURETORS FROM MARVEL-SCHEBLER

Carburetor exchange program covers all popular Marvel Schebler/Facet general aviation carburetors. The carburetors are overhauled to the strictest industry standards and carry a full 6 month warranty (from date of installation). Most carburetors are available from stock or within a week and are furnished complete with gaskets.

Due to the various configurations of carburetor installations, we suggest you retain your carburetor core until receiving the exchange unit. This will enable you to transfer all external fittings and installation hardware to the new exchange unit. All cores being returned for credit shall be, as removed from the engine, complete and not disassembled. A reduction in core credit is charged for missing or damaged parts.

- Precision Carburetors
- TCM Fuel Systems
- Flow Dividers
- Fast Turn Time on Overhauls
- Unmatched Quality
- 100% calibration of fuel pumps and servos.
- Precision Fuel Servos
- Romec Fuel Pumps
- FAA/PMA Approved Replacement Parts
- Carburetor Overhaul Quick Kits
- Highly skilled/trained technicians

LYCOMING CARBURETORS

Carb. Model	Lycoming P/N	Vendor P/N	Our P/N	Price	Core
MA-3A	61547	10-3103-1	10-03103-1	**$775.00**	**$600.00**
MA-4SPA	69250	10-3678-12	08-06325	**$829.00**	**$600.00**
MA-4SPA	72394	10-3678-32	08-06326	**$829.00**	**$600.00**
MA-4-5	71098	10-3878	08-06372	**$829.00**	**$600.00**
MA-4-5	71710	10-4164-1	08-06373	**$829.00**	**$600.00**
MA-4-5	66458	10-2827	07-01405	**$983.00**	**$600.00**
MA-4-5	66869	10-3323	07-01411	**$769.00**	**$600.00**
MA-4-5	67713	10-3391-1	07-01412	**$769.00**	**$600.00**
MA-3SPA	62830	10-3565-1	07-01413	**$829.00**	**$600.00**
MA-4-5	69540	10-3634	07-01415	**$757.00**	**$600.00**
MA-3SPA	68856	10-3729	07-01416	**$699.00**	**$600.00**
MA-4-5	71546	10-3856-1	07-01417	**$769.00**	**$600.00**
MA-4-5	71685	10-3856-12	07-01418	**$820.00**	**$600.00**
MA-4-5AA	71139	10-4025	07-01419	**$1,126.00**	**$600.00**
MA-4-5AA	71684	10-4025-12	07-01421	**$823.00**	**$600.00**
MA-6AA	72407	10-4218-1	07-01424	**$820.00**	**$600.00**
MA-4-5	72386	10-4329	07-01426	**$769.00**	**$600.00**
MA-4-5	74121	10-4404-1	08-06376	**$829.00**	**$600.00**
MA-6AA	73899	10-4438-1	07-01428	**$876.00**	**$600.00**
MA-4-5AA	73257	10-4495	07-01429	**$769.00**	**$600.00**
MA-5	20671	10-4865	07-01430	**$876.00**	**$600.00**
HA-6	LW-15957	10-5219	08-06394	**$989.00**	**$600.00**
MA-3PA	LW-16073	10-5220	08-06395	**$780.00**	**$600.00**
MA-3PA		10-5220-E	07-01464	**$702.00**	**$600.00**
HA-6	LW-16066	10-5221	07-01465	**$855.00**	**$600.00**
HA-6	LW-15958	10-5224	08-06396	**$953.00**	**$600.00**

Carb. Model	Lycoming P/N	Vendor P/N	Our P/N	Price	Core
MA-4SPA	77279	10-4910	08-06381	**$789.00**	**$600.00**
MA-4SPA	LW-16559	10-4910-1	08-06382	**$789.00**	**$600.00**
MA-3A	77585	10-4953	08-06383	**$889.00**	**$600.00**
MA-6AA	77888	10-4975	07-01434	**$1,185.00**	**$600.00**
MA-3PA	77939	10-4978-1	07-01435	**$967.00**	**$600.00**
MA-4-5	LW-10064	10-5034	08-06385	**$798.00**	**$600.00**
MA-4-5	LW-10196	10-5042	07-01438	**$827.00**	**$600.00**
MA-3PA	LW-10619	10-5050	08-06386	**$780.00**	**$600.00**
MA-4-5	LW-10540	10-5054	08-06387	**$798.00**	**$600.00**
HA-6	LW-12097	10-5092	07-01443	**$995.00**	**$600.00**
MA-3PA	LW-13133	10-5126	08-06388	**$935.00**	**$600.00**
MA-3PA	LW-14016	10-5142	08-06389	**$743.00**	**$600.00**
HA-6	LW-14689	10-5180	07-01446	**$855.00**	**$600.00**
HA-6	LW-13757	10-5189	07-01447	**$1,186.00**	**$600.00**
MA-4-5	LW-15380	10-5193	08-06390	**$829.00**	**$600.00**
HA-6	LW-15504	10-5200	07-01450	**$1,186.00**	**$600.00**
HA-6	LW-15626	10-5206	07-01453	**$855.00**	**$600.00**
HA-6	LW-16062	10-5206-1	07-01457	**$855.00**	**$600.00**
HA-6	LW-16413	10-5206-11	07-01458	**$855.00**	**$600.00**
HA-6	LW-15663	10-5210	07-01459	**$855.00**	**$600.00**
HA-6	LW-15674	10-5211	07-01460	**$1,186.00**	**$600.00**
HA-6	LW-15985	10-5211-1	07-01461	**$855.00**	**$600.00**
MA-4-5	72740	10-4404	08-06375	**$829.00**	**$600.00**
MA-4SPA	78728	10-5009	08-06384	**$829.00**	**$600.00**
MA-4SPA	13659	10-5135	08-13873	**$829.00**	**$600.00**
MA-3A	15496	10-5199	08-06391	**$775.00**	**$600.00**
MA-4SPA	15986	10-5217	08-06392	**$829.00**	**$600.00**
MA-3SAP	0-290-D	10-3346-1	07-00870	**$799.00**	**$600.00**
$600.00	LW-16206	10-5227	07-01467	**$854.00**	**$600.00**
$699.00	LW-15959	10-5230	08-06397	**$975.00**	**$600.00**
HA-6	LW-15960	10-5235	08-06398	**$953.00**	**$600.00**

EP

*****NOTE*****

Customer will need to provide core for overhaul in the event our supplier does not have cores available to overhaul.
If you do not see your model # here please contact Aircraft Spruce Sales Department for pricing and availability .
****All prices shown are with factory acceptable exchange carburetor.***
Send exchange carburetor core to Aircraft Spruce. Upon factory approval of core, you will be refunded the core charge.
BE CERTAIN ALL FUEL IS REMOVED FROM THE CORE.
If Carburetor is not in stock we can have yours overhauled in 5-7 working days. Please call or email for more information.

CONTINENTAL CARBURETORS

Part No.	Carb. Model	O.E.M. P/N	Our Part No.	Our Price	Core
10-3168	MA-4-5	520120	07-01369	**$769.00**	**$600.00**
4895-T	MA-3SPA	530490	08-06380	**$829.00**	**$600.00**
10-3649-1	MA-4-5	535207	07-01370	**$769.00**	**$600.00**
10-3859-1	MA-4-5	538872	08-06371	**$791.00**	**$600.00**
10-3965-1	MA-4-5	539883	07-01373	**$769.00**	**$600.00**
10-3965-12	MA-4-5	539883	10-03965-12	**$849.00**	**$600.00**
10-4115-1	MA-3SPA	627143	10-04115-1	**$799.00**	**$600.00**
10-4171	MA-4-5	626789	07-01351	**$983.00**	**$600.00**
10-4191	MA-4-5	626859	07-01375	**$758.00**	**$600.00**
10-4233	MA-3SPA	627365	08-06374	**$829.00**	**$600.00**
10-4240	MA-3SPA	627637	07-01377	**$829.00**	**$600.00**
10-44399-1	MA-3SPA	628945	10-04439	**$699.00**	**$600.00**
10-4457	MA-3SPA	629175	07-01378	**$799.00**	**$600.00**
10-4893-1	MA-4-5	641139	08-06378	**$829.00**	**$600.00**
10-4894	MA-3SPA	633028	08-06379	**$829.00**	**$600.00**
10-5067	MA-3SPA	-	07-01381	**$799.00**	**$600.00**
10-5082	MA-3SPA	637035	07-01382	**$799.00**	**$600.00**
10-5128	MA-3SPA	640416	07-01385	**$699.00**	**$600.00**
10-5192	MA-3SPA	641860	07-01386	**$820.00**	**$600.00**
10-5284	MA-4-5	646232	08-06404	**$829.00**	**$600.00**

*All prices shown are with factory acceptable exchange carburetor. Add core charge on all models to each price shown. Send exchange carburetor core to Aircraft Spruce. Upon factory approval of core, you will be refunded the core charge.
BE CERTAIN ALL FUEL IS REMOVED FROM THE CORE.
FRANKLIN ENGINE CARBURETORS ALSO AVAILABLE. ADVISE EXACT ENGINE AND CARBURETORS ALSO AVAILABLE. ADVISE ENGINE AND CARBURETOR MODEL NUMBERS AND REQUEST QUOTATION

MARVEL-SCHEBLER CARBURETORS

MARVEL-SCHEBLER NEW CARBURETORS

Note: Customer will need to provide core for overhaul in the event our supplier does not have cores available to overhaul.

Note: All Rebuilt & Overhauled Carb Purchases will be Charged an Additional $600.00 for Core.

Please check with Aircraft Spruce on availability of cores at Marvel-Schebler.

Carb. Model No.	OEM Part No.	Our Part No.	Our Price	Tempest Carb. Model No.	OEM Part No.	Our Part No.	Our Price
MA-4SPA™	10-3678-12--F	08-06304	**$1,783.00**	MA-4SPA™	10-3678-32--F	08-06305	**$1,749.00**
MA-4-5™	10-3859-1--F	08-06327	**$2,222.00**	MA-4-5™	10-3878--F	08-06306	**$2,222.00**
MA-4-5™	10-4164-1--F	08-06307	**$2,222.00**	MA-3PA™	10-4233--F	08-06328	**$1,732.00**
MA-3SPA™	10-4240-1--F	08-06329	**$1,783.00**	MA-4-5™	10-4404-1--F	08-06308	**$2,223.00**
MA-4-5™	10-4893-1--F	08-06309	**$2,222.00**	MA-3SPA™	10-4894-1--F	08-06311	**$1,789.00**
MA-3SPA™	10-4895-1--F	08-06312	**$1,794.00**	MA-4SPA™	10-4910-1--F	08-06332	**$1,732.00**
MA-4SPA™	10-5009--F	08-06315	**$1,732.00**	MA-4-5™	10-5034--F	08-06335	**$2,222.00**
MA-3PA™	10-5050--F	08-06336	**$1,731.00**	MA-4-5™	10-5054--F	08-06337	**$2,223.00**
MA-3SPA™	10-5082--F	08-06338	**$1,732.00**	MA-3PA™	10-5126--F	08-06339	**$1,731.00**
MA-3PA™	10-5142--F	08-06340	**$1,731.00**	MA-4-5™	10-5193--F	08-06341	**$2,236.00**
MA-3A™	10-5199--F	08-06316	**$1,547.00**	MA-4SPA™	10-5217--F	08-06317	**$1,748.00**
HA-6™	10-5219--F	08-06342	**$2,411.00**	MA-3PA™	10-5220--F	08-06343	**$1,732.00**
HA-6™	10-5224--F	08-06344	**$2,408.00**	HA-6™	10-5230--F	08-06345	**$2,408.00**
HA-6™	10-5235--F	08-06346	**$2,408.00**	HA-6™	10-5253--F	08-06347	**$2,408.00**
HA-6™	10-5255--F	08-06348	**$2,408.00**	MA-3PA™	10-5257--F	08-06349	**$1,731.00**
MA-3PA™	10-5267--F	08-06353	**$1,732.00**	HA-6™	10-5283--F	08-06354	**$2,408.00**
MA-4-5™	10-5284--F	08-06356	**$2,222.00**	MA-4-5™	10-5288--F	08-06357	**$2,222.00**
HA-6™	10-6001--F	08-06358	**$2,408.00**	HA-6™	10-6019--F	08-06359	**$2,408.00**
HA-6™	10-6030-1--F	08-06363	**$2,408.00**	MA-4-5™	10-6035-11--F	08-06365	**$2,598.00**
MA-4-5™	10-6045--F	08-06366	**$2,222.00**	MA-4-5™	10-6050--F	08-06368	**$2,222.00**
MA-4-5™	10-6054--F	08-06369	**$2,117.00**	MA-4-5™	10-6102--F	08-06370	**$2,222.00**

EP

MARVEL-SCHEBLER REBUILT & OVERHAULED CARBURETORS

Model Number	OEM Part No.	Rebuilt P/N	Rebuilt Price	Overhaul P/N	Overhaul Price	Core for Rebuilt / Overhauled
MA-4SPA™	10-3678-12	08-06325-1	**$923.00**	08-06325	**$829.00**	**$600.00**
MA-4SPA™	10-3678-32	08-06326-1	**$949.00**	08-06326	**$829.00**	**$600.00**
MA-4-5™	10-3859-1	08-06371-1	**$1,085.00**	08-06371	**$791.00**	**$600.00**
MA-4-5™	10-3878	08-06372-1	**$1,099.00**	08-06372	**$829.00**	**$600.00**
MA-4-5™	10-4164-1	08-06373-1	**$1,085.00**	08-06373	**$829.00**	**$600.00**
MA-3PA™	10-4233	08-06374-1	**$913.00**	08-06374	**$829.00**	**$600.00**
MA-4-5™	10-4404-1	08-06376-1	**$1,086.00**	08-06376	**$829.00**	**$600.00**
MA-4-5™	10-4404	08-06375-1	**$1,086.00**	08-06375	**$829.00**	**$600.00**
MA-4-5™	10-4893-1	08-06378-1	**$1,119.00**	08-06378	**$829.00**	**$600.00**
MA-3SPA™	10-4894-1	08-06379-1	**$949.00**	08-06379	**$829.00**	**$600.00**
MA-3SPA™	10-4895-1	08-06380-1	**$949.00**	08-06380	**$829.00**	**$600.00**
MA-4SPA™	10-4910-1	08-06382-1	**$919.00**	08-06382	**$789.00**	**$600.00**
MA-4SPA™	10-4910	08-06381-1	**$927.00**	08-06381	**$789.00**	**$600.00**
MA-3A™	10-4953	08-06383-1	**$957.00**	08-06383	**$889.00**	**$600.00**
MA-4SPA™	10-5009	08-06384-1	**$949.00**	08-06384	**$829.00**	**$600.00**
MA-4-5™	10-5034	08-06385-1	**$1,085.00**	08-06385	**$798.00**	**$600.00**
MA-3PA™	10-5050	08-06386-1	**$919.00**	08-06386	**$780.00**	**$600.00**
MA-4-5™	10-5054	08-06387-1	**$1,085.00**	08-06387	**$798.00**	**$600.00**
MA-3PA™	10-5126	08-06388-1	**$1,097.00**	08-06388	**$935.00**	**$600.00**
MA-3PA™	10-5142	08-06389-1	**$923.00**	08-06389	**$743.00**	**$600.00**
MA-4-5™	10-5193	08-06390-1	**$1,125.00**	08-06390	**$829.00**	**$600.00**
MA-3A™	10-5199	08-06391-1	**$808.00**	08-06391	**$775.00**	**$600.00**
MA-4SPA™	10-5217	08-06392-1	**$949.00**	08-06392	**$829.00**	**$600.00**
HA-6™	10-5219	08-06394-1	**$1,125.00**	08-06394	**$989.00**	**$600.00**
MA-3PA™	10-5220	08-06395-1	**$934.00**	08-06395	**$780.00**	**$600.00**
HA-6™	10-5224	08-06396-1	**$1,085.00**	08-06396	**$953.00**	**$600.00**
HA-6™	10-5230	08-06397-1	**$1,085.00**	08-06397	**$975.00**	**$600.00**
HA-6™	10-5235	08-06398-1	**$1,085.00**	08-06398	**$953.00**	**$600.00**
HA-6™	10-5253	08-06399-1	**$1,102.00**	08-06399	**$986.00**	**$600.00**
HA-6™	10-5255	08-06400-1	**$1,086.00**	08-06400	**$966.00**	**$600.00**
MA-3PA™	10-5257	08-06401-1	**$900.00**	08-06401	**$780.00**	**$600.00**
MA-3PA™	10-5267	08-06402-1	**$943.00**	08-06402	**$829.00**	**$600.00**
HA-6™	10-5283	08-06403-1	**$1,086.00**	08-06403	**$986.00**	**$600.00**
MA-4-5™	10-5284	08-06404-1	**$1,111.00**	08-06404	**$829.00**	**$600.00**
MA-4-5™	10-5288	08-06405-1	**$1,085.00**	08-06405	**$790.00**	**$600.00**
HA-6™	10-6001	08-06406-1	**$1,085.00**	08-06406	**$964.00**	**$600.00**
HA-6™	10-6019	08-06407-1	**$1,086.00**	08-06407	**$964.00**	**$600.00**
HA-6™	10-6030-1	08-06408-1	**$1,086.00**	08-06408	**$953.00**	**$600.00**
MA-4-5™	10-6035-11	08-06409-1	**$1,086.00**	08-06409	**$838.00**	**$600.00**
MA-4-5™	10-6054	08-06410-1	**$1,086.00**	08-06410	**$791.00**	**$600.00**

MARVEL-SCHEBLER FLOAT KIT

A new float has been developed for the small MA series carburetors. The new floats are a solid blue epoxy material with a smooth skin.

Small .... P/N 08-06508 .... **$119.75**
Large .... P/N 08-06510 .... **$139.95**

THROTTLE SHAFT MINOR REPAIR KIT 778-1007-F

Tempest MSA throttle minor repair kit (778-1007--F). All parts contained in this kit are covered under FAA/ PMA PQ0111NM and/or PQ1296CE.

P/N 08-06539 .... **$139.75**

REPLACEMENT PARTS FOR MARVEL-SCHEBLER CARBURETORS

Mfg. Ref.	Description	Part No.	Price
16-A39	Gasket	08-06627	**$3.35**
16-A42	Gasket	08-06628	**$3.35**
16-A48	Gasket	08-06629	**$5.35**
16-A56	Gasket	08-06630	**$13.60**
16-B44	Gasket	08-06635	**$4.35**
16-B45	Gasket	08-06636	**$3.20**
16-B85	Gasket	08-06641	**$3.70**
17-372	Rod	08-06649	**$21.80**
17-383	Rod	08-06650	**$21.80**
194-580	Pump Plunger	08-06938	**$106.85**
194-591	Pump Plunger	08-06939	**$104.95**
194-593	Pump Plunger	08-06940	**$96.75**
194-605	Pump Plunger	08-06941	**$99.85**
233-614	Valve & Seat	08-06971	**$92.75**
233-615	Float Valve	08-06972	**$79.85**
24-262	Spring	08-06651	**$2.26**
24-A10	Spring	08-06655	**$3.85**
24-A115	Spring	08-06656	**$3.85**
24-A30	Spring	08-06659	**$3.85**
24-A33	Spring	08-06660	**$3.85**
29-182	Clip	08-06669	**$14.50**
32-32	Shaft	08-06675	**$20.85**
32-35	Shaft	08-06676	**$17.70**
34-72	Valve	08-06679	**$16.60**
34-91	Valve	08-06680	**$13.50**
44-220	Packing O-Ring	08-06696	**$6.50**
44-223	Packing O-Ring	08-06699	**$7.50**
44-224	Packing O-Ring	08-06701	**$6.50**
44-49	Packing O-Ring	08-06695	**$14.50**

Mfg. Ref.	Description	Part No.	Price
60-260	Bushing	08-06821	**$14.75**
60-A160	Bushing	08-06824	**$20.75**
778-1003	Throttle	08-06535	**$163.75**
778-1004	Throttle	08-06536	**$122.95**
15-483	Screw	08-06590	**$1.85**
15-58	Screw	08-06585	**$2.25**
15-A23	Screw	08-06598	**$2.16**
15-B108	Screw	08-06609	**$3.65**
15-B109	Screw	08-06610	**$3.35**
15-B98	Screw	08-06607	**$5.55**
16-222	Gasket	08-06617	**$7.50**
16-224	Gasket	08-06619	**$2.95**
16-625	Gasket	08-06413	**$77.75**
16-646	Gasket	08-06415	**$79.75**
16-653	Gasket	08-06416	**$39.95**
16-676	Gasket	08-06417	**$38.50**
16-696	Gasket	08-06419	**$39.75**
16-713	Gasket	08-06422	**$31.50**
16-735	Gasket	08-06425	**$31.50**
16-A107	Gasket	08-06631	**$3.35**
16-A108	Gasket	08-06632	**$3.20**
16-A16	Gasket	08-06621	**$3.20**
16-A28	Gasket	08-06622	**$3.35**
16-A30	Gasket	08-06623	**$4.35**
16-A31	Gasket	08-06624	**$5.35**
16-A32	Gasket	08-06625	**$3.35**
16-A36	Gasket	08-06626	**$4.45**
82-1	Cotter Pin	08-06878	**$1.12**
82-11	Cotter Pin	08-06880	**$1.20**
82-14	Cotter Pin	08-06881	**$1.25**

Mfg. Ref.	Description	Part No.	Price
99-44	Plug	08-06896	**$8.65**
47-851	Nozzle	07-06697	**$133.80**
47-852	Nozzle	08-06771	**$181.75**
778-1005	Throttle Shaft	08-06537	**$157.75**
778-1006	Throttle Shaft	08-06538	**$159.75**
778-1007	Throttle Shaft	07-06638	**$133.90**
778-1008	Throttle Shaft	08-06540	**$153.95**
78-121	Washer	08-06842	**$2.35**
78-388	Washer	08-06847	**$1.23**
78-A109	Washer	08-06853	**$3.40**
78-A110	Washer	08-06854	**$3.40**
78-A111	Washer	08-06855	**$3.35**
78-A40	Washer	08-06851	**$2.04**
78-A97	Washer	08-06852	**$3.35**
81-311	Nut	08-06877	**$3.75**
13-1519	Throttle Shaft	08-06568	**$188.95**
13-1520	Throttle Shaft	08-06569	**$149.85**
13-1521	Throttle Shaft	08-06570	**$136.75**
13-1522	Throttle Shaft	08-06571	**$176.75**
13-1523	Throttle Shaft	08-06572	**$176.75**
13-1531	Throttle Shaft	08-06575	**$169.85**
13-1533	Throttle Shaft	08-06576	**$209.95**
155-226	Lever	08-06912	**$16.50**
155-307	Lever	08-06914	**$28.50**
15-126	Screw	08-06587	**$5.80**
43-648	Needle	08-06691	**$28.90**
43-564	Needle	08-06690	**$55.75**

SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE PARTS LIST.

REPLACEMENT CARBURETOR VENTURI'S (ONE PIECE)

These one piece Venturis replace old type primary and main Venturis in Marvel-Schebler carburetors. Order by new Venturi part number.

Old Main Venturi	New 1-Piece Venturi	Our Price
46-462	46-F7	**$113.75**
46-A2	46-F10	**$82.80**
46-A65	46-F11	**$70.75**
46-A70	46-F12	**$109.85**

FLOAT NEEDLE SEAT DRIVER

This Float Needle Seat Driver is applicable to Marvel-Schebler MA3 and MA4 carburetors and is quality made of alloy steel. It facilitates the easy removal of needle valve seats, prevents damage to the main casting and the new seat during installation, and insures proper torque application. Features 7/16" hex drive fitting. P/N 12-30190................ **$79.75**

BENDIX/PRECISION RSA FUEL SERVOS & FLOW DIVIDERS

- Bendix/Precision (RSA-5, RSA-7da1, RSA-10 Overhaul/Exchange).
- Bendix/Precision (Flow Dividers Overhaul/Exchange.
- TMC Complete Fuel Injection Systems (IO-360, IO-550, L/TSIO-360,TSIO-520, GTSIO-520, TSI Overhaul Exchange).
- TCM Individual Fuel Injection Components Throttle Assemblies, Control Assemblies (without throttle Pumps, Manifold Valves, Pressure Regulators, No Assemblies (cleaning, rejetting, calibrating).
- FAA/PMA Replacement Parts.

Call or visit our website at: www.aircraftspruce.com for more info.

REPLACEMENT FLOAT KITS BY MARVEL-SCHEBLER

Needle and Seats for MA3-4 #233-615
P/N 08-06972................**$79.85**

Needle and Seats for MA4-5 #233-614
P/N 08-06717.............**$109.85**

REPAIR KITS & PARTS FOR COMMON MARVEL-SCHEBLER CARBURETORS

Lycoming No.	Marvel-Schebler Kit P/N	Marvel-Schebler Carb P/N	Major Repair Kit Price
62289	286-1628	10-3346-1	**$561.00**
69250	286-1624	10-3678-12	**$413.95**
62830	286-1630	10-3565-1	**$435.00**
LW-11222	286-1622	10-5062	**$513.00**
LA-16907	286-1783	10-5267	**$339.00**
71098	666-660	10-3878	**$219.95**
LW-15380	286-1719	08-06466	**$512.00**

NOTE: Many Marvel-Schebler replacement parts are no longer available from Facet. These are manufactured by Kelly Aerospace.

CARBURETOR HEAT BOX PARTS

Unique Elastomer Bearing Replaces Needle Bearing - McFarlane's elastomer bearing is assembled with tension between the mating surfaces. This tension prevents micro-movement and its related metal erosion. The bearing contact area that transfers vibration motion from the heat box to the butterfly shaft is hundreds of times greater than that of the original needle bearing. This large surface effectively prevents localized metal erosion. • Absorbs shaft and butterfly vibration • Eliminates needle bearing failures • Increases service life of all components • Direct replacement for original parts. ***Proven Design:*** • Tested to over 700,000 cycles while exposed to avgas, heat and vibration without any change in performance • Extremely rugged and wear resistant in high temperature and fuel environments. ***Convenient:*** • Discontinued part numbers through the factory are now manufactured by McFarlane • Also available in kits containing the shaft, arm, bearing housings, monel rivets, and roll pin. ***Shafts and bearings sold separately.***

CESSNA SHAFT

Description	Part No.	Price
Cessna Shaft MC0450068-2 Model: FA152 Serial No: FA1520337 thru FA1520425	05-04430	**$168.85**
Cessna Shaft MC0550180-16 Model: 172B,C Serial No: 17247747 thru 17249544	05-04431	**$254.95**
Cessna Shaft MC0550180-28 Model: F172D,E,F, G Serial No: F172-0001 thru F172-0319	05-04432	**$261.95**
Cessna Shaft MC0509068-6 Model: 172Q Serial No: 17275869 thru 17276516	05-04433	**$208.95**
Cessna Shaft MC1752078-4 Model: 177A,B Serial No: 17701165 thru 17702752	05-04434	**$194.75**
Cessna Shaft MC0750112 Model: 180* Serial No: 30000 thru 32150	05-04435	**$188.75**
Cessna Shaft MC0750126-19 Model: 180*, 180A,B Serial No: 32151 thru 50661	05-04436	**$183.85**
Cessna Shaft MC0750133-8 Model: 175, 175A Serial No: 55001 thru 56777	05-04437	**$187.75**
Cessna Shaft MC0750173-3 Model: 185, 185A,B, C,D,E/ A185E* Serial No: 185-0001 thru 185-1300	05-04438	**$189.75**
Cessna Shaft MC0750173-4 Model: A185E* Serial No: 185-1301 thru 18501832	05-04439	**$197.80**

****Partial model eligibility.***

CESSNA ARM

Description	Part No.	Price
Cessna Arm MCS2280-8-00 Model: 152, A152, F152, FA152 Serial No: 15279406 thru 15286033 A152 A1520735 thru A1521049 F152 F15201429 thru F1520198 FA152 FA1520337 thru FA1520425	05-04440	**$155.75**
Cessna Arm MC0750111-19	05-04441	**$171.75**
Cessna Arm MCS2280-3-157	05-04442	**$196.75**

CESSNA BEARING

Description	Part No.	Price
Cessna Bearing HSG MC0750113-1 Model: 152 Serial No: MC0750113-1	05-04443	**$78.80**
Cessna Bearing HSG MC0750113-3 Model: 172Q Serial No:MC0750113-3	05-04444	**$80.75**

CARBURETOR OVERHAUL QUICK KITS

Marvel-Schebler "Quick Kits" are easy to use, and are designed to save you time and money. Quick Kits include not only the recommended replacement parts used in every overhaul, but the additional parts used by all fuel professionals to insure the job is done right.

Kits include (where applicable): Throttle shaft lever, throttle shaft, throttle adjusting screw, throttle valve screws, inlet strainer screws, throttle body screws, mixture control lever screw, gasket kit, pump connection rod, throttle opening spring, idle adjustment spring, float lever shaft, pump stem, throttle shaft bushings, inlet strainer washer, pump stem retainer washer, mixture control lever washer, throttle body washers, throttle lever lock nut, float shaft cotter pin, throttle nut cotter pin, pump lever, pump plunger assembly and float valve seat assembly.

10-5282	CF286-11
10-5283	CF286-11
10-5288	CF286-08
10-6014	CF286-11
KIT P/N	**PRICE**
286-00	**$346.00**
286-01	**$487.00**
286-02	**$459.00**
286-03	**$491.00**
286-04	**$439.00**
286-05	**$523.00**
286-06	**$487.00**
286-07	**$512.00**
286-08	**$485.00**
286-09	**$493.00**
286-10	**$556.00**
286-11	**$570.00**
286-12	**$360.00**

See which Part No. is for your application in the charts to the right.

Franklin Carburetors	
P/N	**"Quick Kit" P/N**
10-2971-P	CF286-02
10-3007	CF286-06
10-3063-2	CF286-06
10-3148-1	CF286-06
10-3479	CF286-06
10-5069	CF286-02
10-5093	CF286-00
Continental Carburetors	
P/N	**"Quick Kit" P/N**
10-2848	CF286-02
10-2948	CF286-02
10-3168	CF286-05
10-3237	CF286-03
10-3649-1	CF286-05
10-3759	CF286-05
10-3859	CF286-05
10-3859-1	CF286-05
10-3965	CF286-05
10-3965-1	CF286-05
10-4171	CF286-05
10-4191	CF286-05
10-4233	CF286-02
10-4240	CF286-02
10-4240-1	CF286-02
10-4252	CF286-02

10-4439	CF286-03
Continental Carburetors	
P/N	**"Quick Kit" P/N**
10-4457	CF286-02
10-4893	CF286-05
10-4893-1	CF286-05
10-4894	CF286-02
10-4894-1	CF286-02
10-4895	CF286-03
10-4895-1	CF286-03
10-5067	CF286-02
10-5082	CF286-02
10-5128	CF286-02
10-5192	CF286-05
10-5284	CF286-05
Lycoming Carburetors	
P/N	"Quick Kit" P/N
10-2827	CF286-07
10-2983	CF286-00
10-3103-1	CF286-00
10-3323	CF286-07
10-3346-1	CF286-02
10-3391-1	CF286-06
10-3565-1	CF286-02
10-3634	CF286-06
10-3678-12	CF286-04
10-3678-32	CF286-04

10-3729	CF286-02
10-3856	CF286-06
Lycoming Carburetors	
P/N	**"Quick Kit" P/N**
10-3856-1	CF286-06
10-3856-11	CF286-06
10-3856-12	CF286-06
10-3878	CF286-08
10-4057	CF286-09
10-4057-1	CF286-09
10-4164	CF286-08
10-4164-1	CF286-07
10-4404	CF286-09
10-4404-1	CF286-09
10-4910	CF286-04
10-4910-1	CF286-04
10-4953	CF286-00
10-4978-1	CF286-01
10-5009	CF286-04
10-5009N	CF286-04
10-5034	CF286-07
10-5042	CF286-00
10-5045	CF286-10
10-5045-1	CF286-10
10-5050	CF286-01
10-5054	CF286-09
10-5062	CF286-04

10-5092	CF286-10
10-5126	CF286-01
10-5135	CF286-04
Lycoming Carburetors	
P/N	**"Quick Kit" P/N**
10-5142	CF286-01
10-5180	CF286-10
10-5189	CF286-10
10-5193	CF286-08
10-5199	CF286-00
10-5206	CF286-10
10-5206-1	CF286-10
10-5206-11	CF286-10
10-5210	CF286-10
10-5217	CF286-04
10-5219	CF286-11
10-5220-E	CF286-01
10-5220	CF286-01
10-5221	CF286-12
10-5224	CF286-11
10-5227	CF286-12
10-5230	CF286-11
10-5235	CF286-11
10-5253	CF286-11
10-5255	CF286-11
10-5257	CF286-01
10-5267	CF286-01

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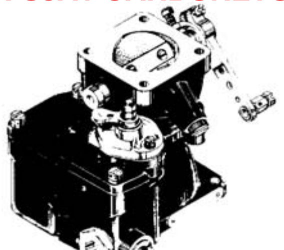
BENDIX STROMBERG NA-S3A1 CARBURETOR OVERHAUL PARTS FOR NA-S3A1 CARBURETOR



The NA-S3A1 carburetor is no longer in production. Only the parts listed are carried in stock. Others may be special ordered. Originally used on Cont. A-65, A-75, A-80, C-75, C-85 and C-90 engines.

Gasket & Ring Set (Incl. gaskets for under seat)
P/N 07-02200 ....**$52.75**
P-14222 Steel Needle and P-17247 seat ..... P/N 07-14222 ......**$166.75**
Needle (Delrin) .... P/N 2523047........**$329.00**
Metering Jet (C-85) .... P/N 07-00684 ....**$13.50**
Metering Jet (A-65).. P/N 07-00685 ....**$12.50**
Washer only - P5329 for Main Discharger Nozzle
P/N 07-05329 ....**$2.70**

Throttle Shaft (Ref. #34 in Manual) not available.

MARVEL-SCHEBLER CARB GASKETS

MC16-A36 GASKET FUEL INLET FAA-PMA - Marvel-Schebler Fuel Inlet Screen Gaskets for many Carbureted Aircraft The copper gaskets should be changed when finger screens are inspected at each annual inspection.
P/N 07-01387..........................**$4.80**

Marvel-Schebler / Facet Carburetor Models Eligible for Installation	**Eligible Engine Model Series**	
	Continental Model Series	**Lycoming Model Series**
MA-3, MA-3PA, MA-3A, MA-3SPA, MA-4SPA	A-65, A-75, C-85, C-90, O-200, C-125, C-145, O-300	O-235, O-290, O-320

MC16-A108 GASKET FUEL INLET FAA-PMA - Marvel-Schebler Fuel Inlet Screen Gaskets for many Carbureted Aircraft The copper gaskets should be changed when finger screens are inspected at each annual inspection.
P/N 07-01389..........................**$3.65**

Marvel-Schebler / Facet Carburetor Models Eligible for Installation	**Eligible Engine Model Series**	
	Continental Model Series	**Lycoming Model Series**
MA-4-5, MA-4-5AA, MA-5, MA-6AA, HA-6	GO-300, O-470	O-340, O-360, O-435, O-540

MC16-A48 GASKET FUEL INLET FAA-PMA - Marvel-Schebler Fuel Inlet Screen Gaskets for many Carbureted Aircraft The copper gaskets should be changed when finger screens are inspected at each annual inspection. Sold as a 5 pack.
P/N 07-01388........................**$13.60**

Marvel-Schebler / Facet Carburetor Models Eligible for Installation	**Eligible Engine Model Series**	
	Continental Model Series	**Lycoming Model Series**
MA-4-5, MA-5AA, MA-4-5AA, MA-5, MA-6, MA-6AA, HA-6	GO-300, O-470	O-340, O-360, O-435, O-540

COMPLETE CARBURETORS – TYPE 54

To Order, Specify:
1. Model indicated by engine number 277, 377, 447, 503, or 532.
2. With intake silencer or Without intake silencer.
3. Single Carb or Dual Carb.
4. Hand Choke or Remote Choke.

Model # 54/36/2040
P/N 07-00303 ....**$419.00**

TYPE 54 REBUILD KIT

#17 Top O Ring — #7 Air Screw O Ring
#29 Bowl Gasket — #26 Float Needle
#25 Hinge Pin — #10 Sieve Sleeve (Screen)
#21 Cable Grommet

P/N 07-00304.................................**$46.65**

TYPE 54 FIX-IT KIT

#12 New Spring Cup — #56 Jet Needle O Ring
#11 Clip — P/N 07-00305 .... **$16.50**

COMPLETE CARBURETORS – TYPE 84

To Order, Specify:
1. Model indicated by engine number 277, 377, 447, 503, or 532.
2. With intake silencer or Without intake silencer.
3. Single Carb or Dual Carb.
4. Hand Choke or Remote Choke.

Model # 84/32/3437....................... P/N 07-00306........ **$454.00**

TYPE 84 REBUILD KIT

#17 Top O Ring — #7 Air Screw O Ring
#29 Bowl Gasket — #26 Float Needle
#25 Hinge Pin — #10 Sieve Sleeve (Screen)
#21 Cable Grommet — P/N 07-00307 .... **$46.85**

ROTAX FLOAT CHAMBER 261-010

This Float Chamber replaces a single float bowl. For dual carb applications, order two.
P/N 261-010.............. **$136.75**

BING CARBURETOR ACCESSORIES

Bing Remote Choke Kit (w/8' cable) .... P/N 07-00308 ....**$56.00**
Bing Remote Choke Kit (w/o cable) ..... P/N 07-00309 ....**$33.50**
Bing Aircraft Parts manual .... P/N 07-00310 ....**$15.95**
Bing Plastic Crossover Vent Tube - 280mm long. Used on Bing type 84 carbs....................................... P/N 07-01360 ....**$12.50**

BING JUNCTION BLOCKS

Bing junction block for dual Carb linkage on any Rotax engine. Three gang outlet can be used dual Carbs or with three way oil injection and dual Carbs. Converts a single throttle line into as many as three lines.
3" Junction Block ....P/N 15-05033.............. **$13.85**
4" Junction Block.......................P/N 15-05450.............. **$11.50**

CARBURETOR SYNCHRONIZATION

CARBMATE - Quick & easy synchronizing by direct comparison of a set of carbs / Fuel Injector throttle bodies. Range adjustable from 2 to 0,05cmHg per LED. Hook up 2 or 5 cylinder with the optional adapter kit.
CarbMate.....................P/N 07-19346 ......**$118.75**

With Rotax 912/914 Accessory Kit...P/N 07-01891 ......**$187.75**

4-CHANNEL ADAPTER KIT

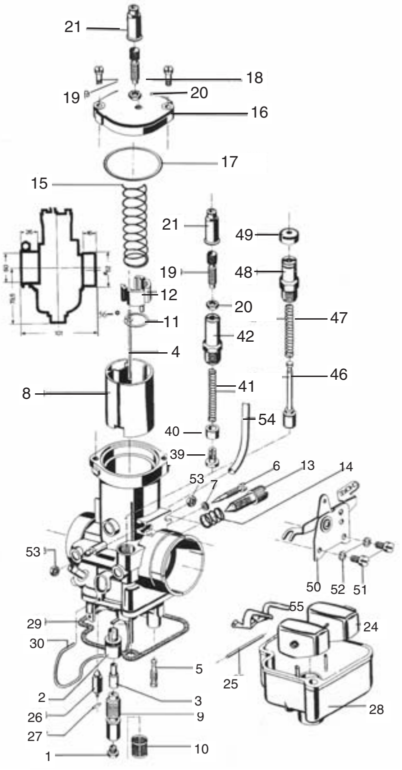
Converts the SynchroMate or CarbMate into a 4 carb/throttle valve synchronizer. This easy-to-mount & easy-to-use kit allows connection of SynchroMate's or CarbMate 2 channels (tubes) to 4 carbs / throttle valves at once.
PN 07-01267 ....**$56.75**

Accessories	Part No.	Price
4-Channek adapter kit TS-220	07-01267	$56.75
Rotax adapter w/ 2X6 ft hose TS-400	07-01889	$61.75
ROTAX ACCESSORY KIT TS-400 KIT	07-01890	$98.00
Rotax black nylon storage case TS-222	07-01893	$32.90
Rota rubber black holster TS-223	07-01894	$8.90
Rotax replacement 6 ft rubber hose	07-01895	$17.50

ROTAX THROTTLE SPRING

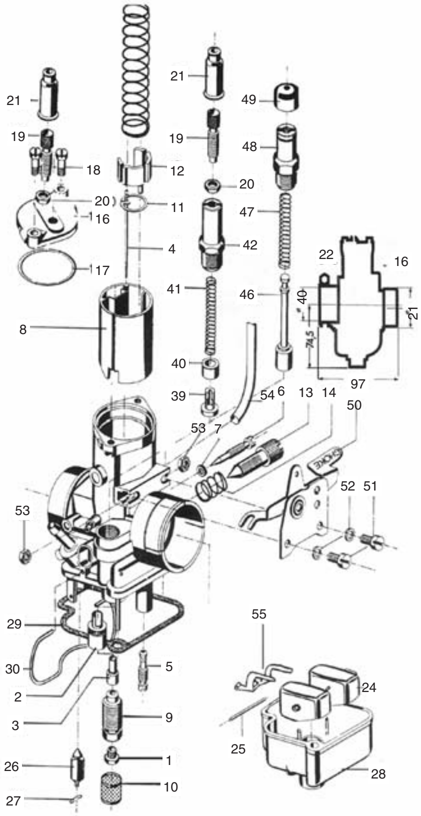
Alternate throttle return spring for Rotax 912/914 series engines. ....P/N 08-06858................ **$2.92**

REPLACEMENT PARTS – TYPE 54



No.	Part No.	Description	Price
1	268-978-998	Main Jet	$10.75
2	251-554	Atomizer	$24.70
3	963-691-699	Needle Jet	$17.60
4	963-711-719	Jet Needle	$16.50
5	963-140-147	Idler Jet	$31.50
6	963-155	Air Screw	$12.50
7	831-710	O Ring	$3.65
8	963-679	Piston	$99.75
9	963-700	Mixing Tube	$21.70
10	261-625	Sieve Sleeve	$9.85
11	963-500	Clip	$7.95
12	827-347	New Style Spring Cup	$8.95
13	963-160	Mix Screw	$9.50
14	938-640	Spring	$3.35
15	938-655	Slide Spring	$6.50
16	963-720	Cover Plate	$26.85
17	831-450	O Ring	$7.70
18	241-430	Screw	$1.60
19	241-440	Adjuster	$4.95
20	942-541	Nut	$1.45
21	260-370	Grommet	$2.80
24	861-181	Indep. Float	$39.85
26	261-705	Float Needle	$39.85
27	261-710	Clip	$1.95
28	261-010	Bowl Kit (bowl,24-27,55) *Float Needle Valve not included	$136.75
29	830-720	Gasket	$9.85
30	963-180	Bowl Clip	$9.90
39	963-740	Piston	$10.95
40	268-850	Sleeve	$4.60
41	661-050	Spring	$2.12
42	963-750	Housing	$15.80
46	268-847	Piston	$26.50
47	239-730	Spring	$4.95
48	261-770	Housing	$12.50
49	260-490	Rubber Cap	$6.85
50	261-755	Choke Lever	$28.50
51	240-791	Screw(51) &	$2.40
52	945-750	Washer(52)	
53	261-200	Nut	$1.43
54	256-035	Vent Tube	$12.50
55	861-190	Float Arm	--
56	831-715	Jet Needle O Ring	$1.73

REPLACEMENT PARTS – TYPE 84

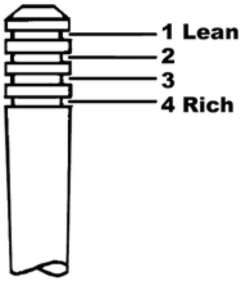


No.	Part No.	Description	Price
1	268-980	Main Jet 135	$11.50
2	261-692	Atomizer	$24.50
3	261-606	Needle Jet 262	$15.50
4	261-643	Jet Needle 8H1	$20.95
5	963-140	Idler Jet 50	$31.50
6	963-155	Air Screw	$12.50
7	831-710	O Ring	$3.65
8	261-635	Piston	$64.75
9	963-130	Jet Stock	$21.70
10	261-625	Screen	$9.85
11	261-650	Holding Plate	$9.50
12	227-635	Spring Cup	$8.65
13	963-160	Mix Screw	$9.50
14	938-640	Spring	$3.35
15	239-700	Slide Spring	$7.70
16	261-660	Cover	$24.65
17	261-670	O Ring	$9.50
18	241-430	Screw	$1.60
19	241-440	Adjust. Screw	$4.95
20	942-541	Nut	$1.45
21	260-370	Grommet	$2.80
26	261-705	Float Needle	$39.85
27	261-710	Clip	$1.95
28	963-170	Bowl	$43.95
29	830-720	Gasket	$9.85
30	963-180	Bowl Clip	$9.90
39	963-740	Piston	$10.95
40	268-850	Sleeve	$4.60
41	661-050	Spring	$2.12
42	963-750	Housing	$15.80
46	268-847	Piston	$26.50
47	239-730	Spring	$4.95
48	261-770	Housing	$12.50
49	260-490	Rubber Cap	$6.85
50	261-750	Lever	$21.50
51	240-791	Screw(51) &	$2.40
52	945-750	Washer(52)	
53	261-200	Nut	$1.43
54	256-033	Vent Tube	$12.50

EP

CARBURETOR JETTING CHART FOR ROTAX® UL ENGINES

Use this chart to identify part number you need, then use bottom chart to select correct part number to order.



ROTAX® ENGINE	$11.50 MAIN JET	$29.50 IDLER JET	$15.50 NEEDLE JET	$16.80 JET NEEDLE	CLIP POSITION	AIR SCREW
2771	148	45	2.72	8L2	2	1
2772	140	45	2.72	8L2	2	1
3771	165	45	2.70	8O2	2	.5
3772	155	45	2.70	8O2	2	.5
4471	165	45	2.70	15K2	2	.5
4472	155	45	2.70	15K2	2	.5
447DC1	135	50	2.70	6G1	3	1
447DC3	128	50	2.68	15K2	2	1
503SC1 Up to #3785371	180	45	2.74	8G2	3	.5
503SC2 Up to #3785371	158	45	2.74	6H2	3	.5
503SC1 From #3785372 Up	185	45	2.72	15K2	3	.5
503SC2 From #3785372 Up	165	45	2.70	15K2	3	.5
503DC1	158	45	2.74	8L2	1	.5
503DC3	148	45	2.68	11K2	2	1
532SC1	195	55	2.74	15K2	3	1
532SC3	170	55	2.74	15K2	3	1
532DC1	165	55	2.72	11G2	3	1
532DC3	145	55	2.68	15K2	3	1
5821	165	55	2.72	11G2	3	1
5823	145	55	2.68	15K2	3	1

1 = Without Rotax® intake silencer kit, with K&N RC1200 air filter, with or without Rotax® after muffler kit.

2 = With Rotax® intake silencer kit, with K&N CM0300 air filter, with or without Rotax® after muffler kit.

3 = With Rotax® dual intake silencer kit, with K&N RC1200 air filters, with or without Rotax® after muffler kit.

MAIN JET

125 = Part No. R268-978
128 = Part No. R261-085
130 = Part No. R268-979
135 = Part No. R268-980
138 = Part No. R268-998
140 = Part No. R268-981
145 = Part No. R268-982
148 = Part No. R268-995
150 = Part No. R268-983
155 = Part No. R268-984
158 = Part No. R268-996
160 = Part No. R268-985
162 = Part No. R268-990
165 = Part No. R268-986
170 = Part No. R268-987
175 = Part No. R268-988
180 = Part No. R268-989
185 = Part No. R261-080
190 = Part No. R261-084
195 = Part No. R268-992
200 = Part No. R261-082
205 = Part No. R261-087
220 = Part No. R261-081

IDLER JET

30 = Part No. R963-141
35 = Part No. R963-143
40 = Part No. R963-142
45 = Part No. R963-144
50 = Part No. R963-140
55 = Part No. R963-147
60 = Part No. R963-145
65 = Part No. R963-146

NEEDLE JET

2.62 = Part No. R261-606
2.68 = Part No. R963-691
2.70 = Part No. R963-698
2.72 = Part No. R963-697
2.74 = Part No. R963-699
2.76 = Part No. R963-693
2.78 = Part No. R963-696
2.80 = Part No. R963-695
2.82 = Part No. R963-694
2.94 = Part No. R961-022

JET NEEDLE

2H2 = Part No. R963-717
4E2 = Part No. R963-716
6G1 = Part No. R261-642
6H2 = Part No. R963-719
6P2 = Part No. 15-05029
8G2 = Part No. R963-712
8H1 = Part No. R261-643
8L2 = Part No. R963-714
8O2 = Part No. R963-711
1O = Part No. R961-045
11G2 = Part No. R961-043
11K2 = Part No. R961-044
15K2 = Part No. R963-718

NEEDLE CLIP

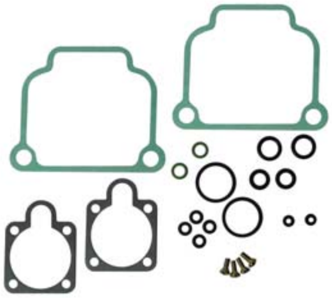
P/N 07-00693 .... **$7.95**

Lower numbers indicate smaller jet size or opening.
Low numbers = lean.
High numbers = rich.
First needle number denotes mixture above half-throttle.
Needle letter denotes mixture below half-throttle.

UNIVERSAL FUEL PRESSURE REGULATOR

If the fuel pump is putting out more than 8 psi, this regulator can be used to keep the fuel pressure within safe limits and avoid the possibility of flooding. • Pressure Range (psi): 4.5-9 • Regulator Style: Non-return • Regulator Location: Inline • Boost/Vacuum Reference Port: No **Gauge Port:** No • Mounting Bracket Included: Yes • Fittings Included: No • Rebuildable: Yes • Inlet Quantity: One • Inlet Attachment: Female threads • Inlet Size: 3/8 in. NPT • Outlet Quantity: Two • Outlet Attachment: Female threads • Outlet Size: 3/8 in. NPT • Regulator Material: Aluminum • Regulator Finish: Chrome plated. • Universal: Yes • Fuel Type: Gasoline • Regulator Usage: Carburetor.
P/N 15-08385 ....**$48.75**

BING DUAL CARB GASKET KIT ROTAX



Quantity: 2 Carbs. "O" Rings: Biggest - Jet Stock, Next Down - Throttle Shaft, Green - Choke Disk, 4 small - Idle Jet & Idle Air Screw, and Smallest - Jet Needle.
For 912.....P/N 15-09421 ..**$49.95**
For 914.....P/N 15-09422 ..**$62.90**

KWIK TUNE FOR ROTAX ENGINES

The handy Kwik Tune, a timesaving tool launched at Sun 'n Fun. Kwik Tune helps remove and reinstall the aircraft throttle cable, cover, spring, and slide in a Bing carburetor.
P/N 08-05206 ....**$9.95**

CARB CLEANING BRUSH

3/16" Tube, .005 Nylon, 2" BP, 6" OAL Can be used in the cleaning of internal bores and cylindrical cavities. Good for light duty jobs applying either wet or dry ingredients or cleansers. Sturdy twisted wire handles feature loop for easy grip. P/N 15-08286 ....**$3.90**

MIKUNI FUEL PUMP

Fuel Pump

Genuine Mikuni fuel pumps. Replace original parts on Rotax®, Hirth, & many other engines.
Single Pump...............P/N 07-00777 ....**$32.50**
Dual Pump..................P/N 07-00778 ....**$28.90**

MIKUNI REBUILT KIT FOR SINGLE/DUAL FUEL PUMPS

Rebuild Kits

Single Pump...............P/N 07-01011 ....**$13.75**
Dual Pump..................P/N 07-01010 ....**$14.75**

CARB FLANGE

VM38/200 Carb Flange. Bolt Centers: 2.875" 36-38 mm Carbs...................P/N 15-06241 ....**$29.90**

MIKUNI FLOAT CHAMBER PLUG

Mikuni Float Chamber Plug.
P/N 15-05548 ....**$4.85**

EP

PRECISION AIRMOTIVE

Precision Airmotive now feature's competitively priced OEM factory overhauled RSA Fuel Injection Servo's & Flow Dividers. As the OEM manufacturer, they ensure 'out of the box' performance of these overhaul units by completing both full flow dynamic and static analysis, verifying fuel delivery performance from idle to full throttle. Since 1988, Precision Airmotive has set the industry standard for fuel injection systems by supporting the general aviation industry with time tested quality products that meet the highest standards.
Note: Aircraft Spruce carries Precision Airmotive replacement parts and accessories, contact us for pricing and availability.

FUEL INJECTION SERVOS

Model No.	Part No.	Engine	Airframe	New Exchange		Rebuilt Exchange		Overhaul Exchange		Core
RSA-5AD1	2576536-2	IO-360-L2A	CesSna 172	07-02770	**$3,765.00**	07-02772	**$1,799.00**	07-02773	**$1,475.00**	**$1,000.00**
	2524054-11	IO-360/540 & various	Mooney 201& others	07-02775	**$3,673.00**	07-02776	**$1,702.00**	07-02777	**$1,475.00**	**$1,000.00**
	2576544-3	IO-540-AB1A5	Cessna 182	07-02778	**$3,910.00**	07-02779	**$1,699.00**	07-02780	**$1,475.00**	**$1,000.00**
	2524450-9	IO-360-AB1/C1C/C1C6	Piper, Arrow, Cherokee, Lake Buccaneer	07-02781	**$3,682.00**	07-02782	**$1,876.00**	07-02783	**$1,627.00**	**$1,000.00**
RSA-10ED1	2524500-9	LTIO-540-F2BD/J2B/J2BD TIO-540-F2BD/J2B/J2BD	Piper Navajo PA-31-325 Chieftain PA-31-350	07-02784	**$4,963.00**	07-02785	**$1,927.00**	07-02786	**$1,626.00**	**$1,000.00**
	2524273-12	IO-540-K1A5/K1A5D/K1G5	Piper Saratoga/ Lance	07-02787	**$4,950.00**	07-02788	**$1,927.00**	07-02789	**$1,626.00**	**$1,000.00**
	2576562-4	TIO-540-AJ1A	Cessna T206	07-02791	**$5,239.00**	07-02792	**$1,926.00**	07-02793	**$1,625.00**	**$1,000.00**
	2576630-4	IO-540-AE1A5	Robinson R44	07-02794	**$5,349.00**	07-02795	**$1,926.00**	07-02796	**$1,627.00**	**$1,000.00**

FLOW DIVIDERS

EP

Part No.	Engine	Configuration	New Exchange		Rebuilt Exchange		Overhaul Exchange	
2524232-2	IO-320, IO-360, IO-540	2 psi spring, no vent tube	07-02799	**$1,024.00**	07-02801	**$367.00**	07-02983	**$299.00**
2576526-1	IO-540	4 psi spring, no vent tube	07-02802	**$1,097.00**	07-02981	**$368.00**	07-02803	**$289.00**

FOR TURBO APPLICATIONS, UNLISTED SERVOS, & FLOW DIVIDERS CALL OR EMAIL AIRCRAFT SPRUCE FOR PRICING.

PRECISION AIRMOTIVE OVERHAUL KIT

Overhaul Kit, RSA-10AD1 for 2576630-4 Servo.
P/N 07-18136 .... **$1,008.00**

PRECISION AIRMOTIVE CONVERSION KIT

Conversion kit per Precision Airmotive Service Bulletin PRS-110. Part Number - 2576659 P/N 07-18137 .... **$162.75**

SILVERHAWK EX FUEL INJECTION SYSTEMS

The Silver Hawk EX, non-certified Fuel Injection System is proven technology drawn from decades of fuel metering engineering by Precision Airmotive. Manufactured as experimental, the new Silver Hawk kit provides experimental pilots with precise, dependable, and reliable fuel metering. Just what you'd expect from Precision Airmotive.
At a price that will make you soar. Manufactured using the highest quality materials and components, the Silver Hawk EX features a machined finish with clear coat anodize. Designed for these major engine manufacturer applications: Lycoming 320, 360, & 540 series; Continental 470 series; Superior and others.

- Specifically engineered and built to meet the demands of aviations growing experimental segment.
- Precision Airmotive appointed worldwide network of factory authorized product support centers
- Backed by a Precision warranty program.

Model No.	Description	Part No.	Price
EX320-1	Application: Lycoming O-320 and IO-320 engines with 150/160 HP	07-00773	**$3,148.00**
EX360-1	Application: Lycoming O-360 and IO-360 parallel valve engines with 160/180 HP Superior O-360 and IO-360 parallel valve engines with 180 HP	07-00774	**$3,150.00**
EX360-2	Application: Lycoming O-360 and IO-360 angle valve engines with 200 HP	07-00775	**$3,150.00**
EX540-1	Application: Lycoming O-540 and IO-540 parallel valve engines with 235-260 HP Continental O-470 engines	07-00776	**$3,140.00**

TEMPEST FUEL SERVO QUICK KITS

The next time you rebuild your fuel components, don't spend time on the phone chasing parts, just order a "Quick Kit" and take the hassle out of your rebuilt. Quick Kits include the mandatory replacement parts, plus the parts used by fuel professionals to insure the job is done right!

Fuel Servo #	Model No.	Our Part No.	QuickKit#	Price
RSA-5AD1	All Models	07-00563	CFK-5AD1	**$720.00**
RSA-10DB2	All Models	07-00565	CFK-10DB2	**$625.00**
RSA-10ED1	All Models	07-00566	CFK-10ED1	**$625.00**

PRECISION O-RING INLET FITTINGS FOR SILVERHAWK EX

Silver Hawk Model Number	Inlet Part Number	Part No.	Price
EX-5VA1	951789 Fitting	07-02977	**$1.95**
EX-5VA1	953541-10 Filter	07-02978	**$1.25**
EX-10VA1 (300 HP)	951790 Fitting	07-02979	**$2.50**
EX-10VA1 (300 HP)	951392 Filter	07-02980	**$1.20**

TEMPEST REBUILT FUEL SERVOS / EXCHANGE

Available only from the factory. These units are also built to factory new specifications and bench checked on an air-box flow bench to OEM original specifications and drawings. NOTE: A body or a center body may be used in a rebuilt servo; however, these components must meet factory new specifications and drawings.

CF PN	Model No.	PN	Price
2524145-12RSA	-5AD1	07-00403	**$1466.00**
2524147-13RSA	-5AD1	07-00404	**$1234.00**
2524189-11RSA	-5AD1	07-00407	**$1234.00**
2524213-11RSA	-5AD1	07-00408	**$1428.00**
2524307-10RSA	-5AD1	07-00458	**$1521.00**
2524335-10RSA	-5AD1	07-00460	**$1415.00**
2524592-B	RSA-5AD1	07-00470	**$1428.00**

LYCOMING & CONTINENTAL FUEL PUMPS

Proven to be a trouble-free mechanical pressure pump. Original equipment on numerous airframe installations and adaptable to most applications with one of 3 dual diaphragm types. Overboard vent of this design provides operating assurance throughout all flights.

Engine Type	Engine Model No.	Our P/N	Lycoming Part No.	Our Price
Lycoming	O-235, O-290, O-320, O-340, O-360, HO-360, GO-480, O-540, VO-540	07-00704	LW15472 41271 (old 40295) 4-6 PSI	**$396.00 (Core $100.00)**
	IO-320, IO-360, AIO-360, HIO-360, IVO-360, IO-540, IGO-540, IO-720	07-00705	LW15473 41234 (old 40296) 25-30 PSI	**$422.00 (Core $100.00)**
Continental	Can be used on A/C who formerly used medium pressure 15 PSI (PS5)	41272 (old 40595) 25-30 PSI	LW15473	**$422.00 (Core $100.00)**
	C-90 (-16F), 0-200	05-19050	AF631391	**$1,197.00**

Lycoming Fuel Pump Gasket For LW15473 .... P/N 60096 ....**$1.70**

Adapt pump thread to AN fittings using AC Fuel pump adapters:
P/N 75505 .. Fitting .. **$42.85** or P/N 75505-1 . Fitting & O-Ring . **$43.50**

LYCOMING/AC FUEL PUMP FITTINGS

P/N 07-00783

P/N 07-00782

These fittings are designed to fit mechanical fuel pumps used on Lycoming engines. These fittings feature 3/8" AN flare outlets for connection to aircraft hoses, and are available in straight, 45° and 90° angle versions. Note: These fittings are not certified.

P/N 07-00780

P/N 07-00781

Straight fitting P/N 07-00780... **$2.35**
45° fitting .... P/N 07-00781 ... **$8.50**
90° fitting ....P/N07-00782 ... **$7.70**
Tee fitting w/1/8" pipe thread tapping for fuel pressure..P/N 07-00783..... **$16.50**

LYCOMING FUEL PUMP GASKET FOR LW15473

Gasket for Lycoming Gasket LW15473.
P/N 60096.......................... **$1.70**

LYCOMING FUEL PUMP ADAPTER GASKET

Lycoming fuel pump adapter gasket. 69164. Dimensions (w x l x h): 2.75 in. X 3.19 in. X 0.07 in.
Lycoming .... P/N 07-03552 ..... **$1.12**
Superior .... P/N 08-11839 ..... **$0.72**

ACS FUEL PUMP COOLING SHROUD

Designed to keep the fuel pump cooler in the hot engine compartments, and reduce the risk of fuel vapor lock. The cooling shroud will fit carbureted or fuel injector Lycoming engines using a diaphragm style pump. Made in the U.S.A. P/N 08-06097 .... **$66.75**

FACET POSI-FLO SOLID STATE FUEL PUMPS

- **Fuel Compatibility:** All models of the Facet Posi-Flo Pumps are compatible with gasoline, diesel, biodiesel, blended alcohol fuels and fuel additives.
- **Easy to Install-Easy to Service:** Two bolt installation plus the small size makes installation easy. For best results, mount the pump close to the fluid or fuel tank and below the liquid level.

Not FAA Approved.

Model	Volts	PSI Max-Min	Fitting Size	Lift Min. Dry	Check Valve	Positive Shut Off Valve	Int.-Ext. Fuel Filter	Part No.	Price
60300	12	4-2.5	1/8-27 INT	20	Y	N	EXT.	05-06862	**$34.90**
60301	12	5-3.5	1/8-27 INT	30	Y	N	EXT.	05-06863	**$34.90**
60302	12	7-5	1/8-27 INT	32	Y	N	EXT.	05-06864	**$34.90**

AEROTAR LEFT LYCOMING FUEL MANIFOLD BRACKET

Aerotar Left Lycoming Fuel Manifold Bracket (07A22996).
P/N 08-15786 ....**$449.99**

TEMPEST LYCOMING & TCM FUEL PUMPS

OVERHAULED LYCOMING FUEL PUMPS

All internal parts are replaced with new certified parts. The actuating arms are magnetic particle test inspected; cast parts are inspected for wear, corrosion and cracks. Both the older laminated and newer channel style fuel pumps are overhauled for normally aspirated, pressure carburetor, and fuel injected systems.

Note: Customer will need to provide core for overhaul in the event our supplier does not have cores available to overhaul.

MMO	Description	P/N	Price
Overhauled Lycoming & TCM Diaphragm Fuel Pumps			
40174	Fuel Pump - Overhauled	05-02530	**$524.00**
40296	Fuel Pump - Overhauled	05-02531	**$406.00**
40595	Fuel Pump - Overhauled	05-19015	**$527.00**
41234	Fuel Pump - Overhauled	05-02532	**$409.00**
41270	Fuel Pump - Overhauled	05-02533	**$524.00**
41271	Fuel Pump - Overhauled	05-02534	**$403.00**
41272	Fuel Pump - Overhauled	05-02536	**$524.00**
41452	Fuel Pump - Overhauled	05-02537	**$524.00**
41812	Fuel Pump - Overhauled	05-02539	**$524.00**
75246	Fuel Pump - Overhauled	05-02540	**$454.00**
75247	Fuel Pump - Overhauled	05-02541	**$479.00**
103396-01	Fuel Pump - Overhauled	05-02542	**$982.00**
103586-01	Fuel Pump - Overhauled	05-02543	**$982.00**
LW14282	Fuel Pump - Overhauled	05-02544	**$524.00**
LW15399	Fuel Pump - Overhauled	08-15399	**$406.00**
LW15472	Fuel Pump - Overhauled	05-19000	**$259.00**
LW15473	Fuel Pump - Overhauled	05-19010	**$259.00**
LW16335	Fuel Pump - Overhauled	05-02545	**$299.00**
LW16775	Fuel Pump - Overhauled	05-02546	**$524.00**
LW16947	Fuel Pump - Overhauled	05-02547	**$524.00**
R00253-1	Fuel Pump - Overhauled	05-02549	**$929.00**
R00253-2	Fuel Pump - Overhauled	05-02551	**$929.00**
R00253-501	Fuel Pump - Overhauled	05-02552	**$929.00**
R00253-502	Fuel Pump - Overhauled	05-02554	**$929.00**
AF1572	Fuel Pump - Overhauled	05-19000	**$259.00**
AF15473	Fuel Pump - Overhauled	05-02556-1	**$249.95**
New Lycoming Diaphragm Fuel Pumps			
AF15472	Fuel Pump - New	05-02555	**$308.00**
AF15473	Fuel Pump - New	05-02556	**$308.00**
Overhauled TCM Centurion Fuel Pumps			
4036/9076	Fuel Pump - Overhauled	05-19030	**$839.00**
6861	Fuel Pump - Overhauled	05-19035	**$858.00**
9051/9867	Fuel Pump - Overhauled	05-19025	**$889.00**
40585	Fuel Pump - Overhauled	05-02557	**$859.00**
40695	Fuel Pump - Overhauled	05-02558	**$889.00**
AF40585	Fuel Pump - Overhauled	05-02557	**$859.00**
AF631391	Fuel Pump - Overhauled	05-19050	**$1,197.00**
New TCM Centurion Fuel Pumps			
AF6561	Screen Kit	05-02560	**$104.75**
AF16335	Fuel Pump - New	05-02561	**$388.00**
AF40585	Fuel Pump - New	05-02564	**$1,287.00**
AF40695	Fuel Pump - New	05-02565	**$1,274.00**
AF631391	Fuel Pump - New	05-19050	**$1,197.00**

$100.00 CORE CHARGE ON TEMPEST OVERHAULED FUEL PUMPS.

EP

FACET SOLID STATE ELECTRIC FUEL PUMPS

These pumps measure less than 3" in any direction and weigh only 18 oz. Fuel is supplied as soon as the ignition is turned on so the engine will start faster at colder temps. Built-in pressure relief prevents flooding and assures fast re-starts on hottest days. The all-steel plated case is water tight. Mounts with two bolts. For best results, mount the pump close to the fuel tank and below the liquid level. The tank is self-priming to 12" to 36" Lift min dry. Standard 12 V models require only 1 amp at max. delivery. Many models are available, but these are the ones recommended by Rutan Aircraft Factory, Stoddard Hamilton and many other aircraft designers. All of the pumps shown feature the all nylon valve and plunger as specified by Rutan Aircraft in the Canard Pusher newsletter.

Facet No.	Volts	PSI Max-Min	GPH	Fitting Size	Lift Min. Dry	Check Valve	Positive Shut Off Valve	Description	Part No.	Price
40100N	12	7.0-4.0	32	1/8 - 27 INT	12"	N	N	40106 Kit - Nuts, Washers, Bolts, Fittings	05-10771	**$41.50**
40101N	12	4.5-3.0	30	1/8 - 27 INT	12"	N	N	40105 Kit - Nuts, Washers, Bolts, Fittings	05-10772	**$41.50**
40102N	12	4.0-1.5	25	1/8 - 27 INT	12"	N	N	Kit - Nuts, Washers, Bolts, Fittings	05-10773	**$41.50**
40104	12	4.0-1.5	25	1/8 - 27 INT	12"	N	N	Facet Solid State	05-00799	**$39.60**
40105	12	4.5-3.0	30	1/8 - 27 INT	12"	N	N	Facet Solid State	40105	**$39.50**
40106	12	7.0-4.0	32	1/8 - 27 INT	12"	N	N	Facet Solid State	40106	**$39.50**
40108	12	6.0-4.5	32	3/8 FLARE	12"	N	N	Facet Solid State	40108	**$44.75**
40154	24	6.0-4.5	32	3/8 FLARE	12"	N	N	Facet Solid State	40154	**$46.50**
40163	12	2.5-1.5	17	1/8 - 27 INT	24"	Y	N	Facet Solid State	40163	**$48.90**
40164	24	6.0-4.5	32	1/8 - 27 INT	12"	N	N	Facet Solid State	40164	**$44.50**
40171	12	3.5-2.0	15	1/8 - 27 INT	12"	Y	Y	Facet Solid State	05-40171	**$49.95**
40178	12	3.5-2.0	15	1/8 - 27 INT	36"	Y	Y	Facet Solid State	05-10781	**$48.90**
40185	12	11.5-9.0	32	1/8 - 27 INT	36"	Y	N	Facet Solid State	05-10782	**$48.50**
40288	12	4.5-3.0	30	1/8 - 27 INT	36"	Y	N	Facet Solid State	05-06860	**$42.50**
40289	12	7.0 - 4.0	30	1/8 - 27 INT	36"	Y	N	Facet Solid State	05-06861	**$42.50**
40300	12	11.5 - 9	30	1/8 - 27 INT	36"	Y	N	Facet Solid State	05-10802	**$51.75**
FEP-42SV	12	4.0-1.5	25	1/8 - 27 INT	12"	N	N	40104 Kit - Fuel Filter, Fuel Fitting, 2 Bolts & 2 Nuts	05-00809	**$42.70**
40300	12	11.5 - 9	30	1/8 - 27 INT	36"	Y	N	Facet Solid State	05-10802	**$51.75**
FEP-42SV	12	4.0-1.5	25	1/8 - 27 INT	12"	N	N	40104 Kit - Fuel Filter, Fuel Fitting, 2 Bolts & 2 Nuts	05-00809	**$42.70**

FACET DURA-LIFT FUEL PUMPS

- Application: Refrigeration trucks, marine generator sets, diesel filtration systems, industrial applications, and other diesel lift applications. These pumps are rated for diesel fuel, gasoline, blended alcohol fuels, and fuel additives.
- Solid State Reliability: Proven on many original equipment applications No electrical contacts. No bearings or diaphragms to wear out or fatigue. Endurance life almost doubles that of our nearest competitor.
- Easy to Install-Easy to Service: Two bolt mounting makes installations easy. Nothing to adjust. The pump is self-priming to 120 inches (3.0 m). Vertical mounting is preferred to assure maintenance of rated pressures. The transparent housing allows for visual capability to monitor the cleanliness of the stainless steel filter.
- Eliminates Vapor Lock: When properly installed on most vehicles a constant, smooth, dependable supply of fuel under pressure is assured in the hottest weather or in high altitudes.

Facet No.	Volts	PSI Max-Min	GPH	Fitting Size	Lift Min. Dry	Check Valve	Part No.	Price
40222	12	11.5-9.0	33	1/8-27 Int.	120"	Y	05-10884	**$92.75**
40285	12	7.0-4.0	33	1/8-27 Int.	120"	Y	05-10886	**$93.75**

FACET GOLD-FLO INTERRUPTER TYPE PUMPS

Fuel Compatibility: All models of the Facet High Performance Gold-Flo Solid State Fuel Pumps are compatible with gasoline, diesel, biodiesel, blended alcohol fuels and fuel additives.

Reliability: The new Gold-Flo Solid State Fuel Pump is an enhanced version of our Interrupter model. It has Solid State circuitry and will meet or exceed all performance specifications and is totally interchangeable. (These pumps have demonstrated an endurance life almost double that of the nearest competitor, according to our test data).

Easy to Install-Easy to Service: Two bolt mounting makes installations easy. Nothing to adjust. For best results, mount the pump close to the fuel tank and below the fuel level. The pump is self-priming to 24 inches vertical fuel lift. Vertical mounting is preferred to assure maintenance of rated pressures. An installation kit is available for replacement applications. The only service normally required is a simple cleaning of the filter and fuel inlet cavity.

Eliminates Vapor Lock: When properly installed on most vehicles a constant, smooth, dependable supply of fuel under pressure is assured in the hottest weather or in high altitudes.

Facet No.	Volts	PSI Max-Min	GPH	Fitting Size	Lift Min. Dry	Check Valve	Part No.	Price
40007E	12	5.5-4.0	36	1/4"-18 Int.	24"	N	05-10842	**$82.75**
40131E	12	5.5-4.0	34	1/8"-27 Int.	24"	N	480545	**$79.85**
476088	24	5.0-4.0	32	1/8"-27 Int.	24"	N	476088	**$79.95**
480543	12	8.0-6.0	45	1/4"-18 Ext.	24"	N	480543	**$93.95**
476087E	12	5.5-4.0	36	1/8"-27 Int.	24"	N	05-10832	**$79.75**
476459E	12	8.0-6.5	32	1/8"-27 Int.	24"	N	05-10833	**$79.75**
477060E	12	4.0-2.75	34	1/8"-27 Int.	24"	N	05-10835	**$78.75**
478360E	12	5.5-4.0	36	1/8"-27 Int.	24"	N	478360	**$79.95**
480534E	12	8.0-6.0	45	1/4"-18 Int.	24"	N	05-00802	**$81.75**
480564E	24	5.0-4.0	32	1/4"-18 Int.	24"	N	05-01003	**$97.50**
FEP87SV	12	8.0-6.5	32	1/8"-27 Int.	24"	N	05-01250	**$35.90**

FACET POSI-FLO SOLID STATE FUEL PUMPS

- Fuel Compatibility: All models of the Facet Posi-Flo Pumps are compatible with gasoline, diesel, biodiesel, blended alcohol fuels and fuel additives.
- Reliability: Proven on thousands of original equipment applications. No bearings, electrical contacts, or diaphragms to wear out or fatigue. Lasts four to five times longer than many other electric pumps.
- Easy to Install-Easy to Service:Two bolt installation plus the small size makes installation easy. For best results, mount the pump close to the fluid or fuel tank and below the liquid level.
- Eliminates Vapor Lock: When properly installed on most vehicles a constant, smooth, dependable supply of fuel under pressure is assured in the hottest weather or in high altitudes.

Facet No.	Volts	PSI Max-Min	GPH	Fitting Size	Lift Min. Dry	Check Valve	Part No.	Price
60106	12	7.0-4.0	32	1/8 - 27 INT	12"	N	05-10856	**$32.60**
60245	12	4.0-1.5	23	1/8 - 27 INT	12"	N	05-10880	**$34.50**
60300	12	4.0-2.5	20	1/8 - 27 INT	50"	Y	05-06862	**$34.90**
60301	12	5.0-3.5	30	1/8 - 27 INT	50"	Y	05-06863	**$34.90**
60302	12	7.0-5.0	32	1/8 - 27 INT	50"	Y	05-06864	**$34.90**
60303	12	10.0-7.0	34	1/8 - 27 INT	50"	Y	05-10881	**$36.50**
60304	12	2.0-1.0	15	1/8 - 27 INT	24"	Y	05-10882	**$36.50**
FEP04SV	12	4.0-1.5	23	1/8 - 27 INT	12"	N	05-01250	**$35.90**

AEROQUIP FITTING FOR FACET PUMPS

On the recommendation of Rutan Aircraft Factory, we now stock Aeroquip #2071-6-6S fitting which is a steel elbow with a swivel nut which fits the 37 flares on the Facet 40108 and 40154 fuel pumps. This Aeroquip fitting makes installation of the pumps easy & economical.

P/N 04-05800 .... **$5.35**

Prices Subject to Change Without Notice

WELDON FUEL PUMPS

WELDON PMA'D FUEL PUMPS

Weldon's strong commitment to excellence with Made-in-America quality has evolved into a comprehensive line of fuel and hydraulic pumps for general aviation, military aircraft, ground support vehicles and UAVs.

Aircraft Make & Model	Weldon Part No.	OEM Part No.	Description	Part Number	Price
Casa	4049-A	AC520068A	Prop Unfeathering	08-10717	**$2,216.00**
Casa	C4033-E	AC520068A	Prop Unfeathering	08-10718	**$2,216.00**
Cessna	18000-A	C291504-0101	Fuel Boost	08-07082	**$799.00**
Cessna 172R, 172S, 182S/T, T182T	18002-B8	5100-00-4	Fuel Boost	08-10719	**$1,227.00**
Cessna 182	A8160-D	A8160-D	Fuel Boost	08-10720	**$1,270.00**
Cessna 206H	A10056-B	A10056-B	Fuel Boost	08-10721	**$1,270.00**
Cessna 310, 320, 340 & 400 Series	18013-B	4140-00-153	Fuel Boost	08-10722	**$1,227.00**
Cessna 340A, 414, 421B	8150-B	8150-B	Fuel Transfer	08-10723	**$1,270.00**
Cessna 441	C4033-G	9910344-3	Prop Unfeathering	08-10724	**$2,466.67**
Cessna Single-Engine & 337 Aircraft	18000-B	C291504-0201	Fuel Boost	08-07083	**$799.00**
Cessna T182	A8185-B	A8185-B	Fuel Boost	08-10725	**$1,271.00**
Cessna T206H	A10055-B	A10055-B	Fuel Boost	08-10726	**$1,270.00**
CPAC (Commander) 112, 112B	A8120-C	A8120-C	Fuel Boost	08-10727	**$1,166.00**
Daher Socata TBM 700	2022-B	6097727225	Fuel Boost	08-10728	**$2,216.00**
Diamond DA-40, DA-42	18002-B	18002-B	Fuel Boost/Transfer	08-10729	**$799.00**
Enstrom F28-A, 280	A8110-G	A8110-G	Fuel Boost	08-10730	**$1,156.00**
Enstrom F-28C, 280C, F-28F, 280F, 280FX	A10019-D	A10019-D	Fuel Boost	08-10731	**$2,792.59**
Enstrom F-28C, 280C, F-28F, 280F, 280FX	A10019-E	A10019-E	Fuel Boost	08-10732	**$2,216.00**
Gippsland GA8 AirVan	8172-A	8172-A	Fuel Boost	08-10733	**$1,268.00**
Gippsland GA8 AirVan	A8172-A	A8172-A	Fuel Boost	08-10734	**$1,268.00**
Mooney M20J (SN 24-0001 thru 24-2999)	A8163-A	A8163-A	Fuel Boost	07-00785	**$1,217.00**
Mooney M20J (SN 24-3000 and up)	A8163-B	A8163-B	Fuel Boost	08-10735	**$1,269.00**
Mooney M20K Serial #25-001 to 25-0999	10054-A	10054-A	Fuel Boost	08-10736	**$1,227.00**
Mooney M20K Serial #25-1000 & up	10054-B	10054-B	Fuel Boost	08-10737	**$1,227.00**
Mooney M20M	A10051-D	A10051-D	Fuel Boost	08-10738	**$1,269.00**
Mooney M20R, M205	A8152-B	A8152-B	Fuel Boost	08-10739	**$1,269.00**
Moravan (Zin Z-143L)	A8150-B1	A8150-B1	Fuel Boost	08-10740	**$1,269.00**
Moravan (Zin Z-242L)	D8100-F	D8100-F	Fuel Boost	08-10741	**$1,165.00**
PA-23-250, PA-23-235	B8001-G	33959-3	Fuel Boost	08-10742	**$1,166.00**
PA-23-250, PA-23-236, PA-23-160	B8001-H	33959-2	Fuel Boost	08-10743	**$1,166.00**
PA-28R-180, PA-28R-200, PA28R-201, PA28R-201T, PA-28R-201, PA-28RT-201T	8120-G	481-780	Fuel Boost	08-08120	**$1,120.00**
PA-28R-201	B8120-G	461-758	Fuel Boost	08-10744	**$1,166.00**
PA-30, PA-39	C8100-J	763-518	Fuel Boost	08-10745	**$1,902.00**
PA-31-325, PA-31-300	A10014-D44	42113-6	Fuel Boost	08-10746	**$2,216.00**
PA-31-350	A10014-D	53050-2	Fuel Boost	08-10747	**$2,216.00**
PA-31-350, T-1020, PA-31-325, PA-31-300	A10014-D40	42113-5	Fuel Boost	08-10748	**$2,216.00**
PA-31P	B10007-D	48885-2	Fuel Boost	08-10749	**$2,216.00**
PA-32-301T, PA32R-301T, PA-32RT-300T	10080-B	481-807	Fuel Boost	08-10750	**$1,914.00**
PA-32R-301T Serial #'s 3257001 & up	10080-D	461-750	Fuel Boost	08-10751	**$1,914.00**
Pilatus B/N BN2A-2, 2A-3, BN2A-20, 21, BN2B-20, 21	A10050-D	354301024	Fuel Boost	08-10752	**$1,269.00**
Robinson R44	19001-B	19001-B	Fuel Boost	08-10753	**$1,227.00**
Lake (Revo Inc.) Mooney M20E, M20F, M20J S/N thru 24-2999 Mooney M20J S/N thru 24-2999, M20K S/N thru 25-0999	18020-A	18020-A	Fuel Boost	05-11890	**$1,227.00**

EP

WELDON HIGH PRESSURE ELECTRIC FUEL PUMP

The 8150 series high pressure electric fuel pump is a positive displacement cammed vane type used primarily in airborne applications. It features a low pressure relief valve and integral bypass valve. Applications include in-line fuel transfer priming of fuel-injected engines & emergency fuel pump. A permanent-magnet, explosion resistant motor is rated for continuous duty. These self-priming, lightweight (2.6 lbs. max.) pumps have been used for over 15 years by major aircraft manufacturers.

Model No.	Flow GPH	Output	Fluid	Power	Core	Price Ea
8150-B Overhauled*	35 Min.	4.5 PSI	Av Gas	24V DC @ 2A	**$400.00**	**$830.00**
* Customer overhauled only. O/H unit comes with 8130.						
New Fuel Pumps Not FAA approved. For Experimental Aircraft Only!						
8163-A New	35 Min.	21 PSI	Av Gas MIL-G-5572	14V DC @ 5A	**$400.00**	**$1,217.00**
8170-A New	35 Min.	4.5 PSI	Gasoline	12V DC @ 4A	**$300.00**	**$1,150.00**

NEW PMA'D WELDON 18000 FUEL PUMPS

Weldon 18000-A (14Volt) Replaces: Cessna C291504-0101, Dukes 4140-00-17
Weldon 18000-B (28Volt) Replaces: Cessna C291504-0201, Dukes 4140-00-15
18000-A Weldon Pump 14V .... P/N 08-07082 ......**$799.00**
18000-A Weldon Pump 28V .... P/N 08-07083 ......**$799.00**

MOUNTING BRACKET FOR WELDON FUEL PUMPS

This T-bolt quick release band clamp with mounting bracket fits all Weldon fuel pumps with 2-1/2" diameter motors. Made from certified aerospace quality stainless steel, this bracket offers secure holding power under extreme vibration. The band clamp rotates within the mounting foot to offer easy access to the quick release latch for a variety of mounting positions.

P/N 05-00021............. **$44.50 ea.**

WELDON OVERHAULED FUEL PUMPS

Description	Part Number	Price
2003-A OH Pump	08-14394	**$1,439.00**
2003-B OH Pump	08-14396	**$1,439.00**
2022-B OH Pump	08-14393	**$1,439.00**
269A8304-19/OH Pump	08-14235	**$782.00**
269A8304-21/OH Pump	08-14236	**$782.00**
3026-A/OH Pump	08-14224	**$1,451.00**
3026-AA/OH Pump	08-14225	**$1,451.00**
3027-A/OH Pump	08-14226	**$1,451.00**
3027-AA OH Pump	08-14227	**$1,451.00**
3027-B OH Pump	08-14228	**$1,451.00**
33959-2 OH Pump	08-14233	**$782.00**
33959-3/OH Pump	08-14234	**$782.00**
4049-A OH Unfeathering Pump	08-14229	**$1,439.00**
4049-AM OH Pump	08-14230	**$1,439.00**
461-758 OH Pump	08-14237	**$782.00**
481-780/OH Pump	08-14238	**$782.00**
763-518/OH Pump	08-14239	**$1,244.00**
8008-C/OH Pump	08-14240	**$782.00**
8009-A/OH Pump	08-14241	**$782.00**
8009-B/OH Pump	08-14242	**$782.00**
8016-B/OH Pump	08-14243	**$782.00**
8017-A/OH Pump	08-14244	**$782.00**
8018-A OH Pump	08-14245	**$782.00**
8115-B/OH Pump	08-14246	**$782.00**
8116-B OH Pump	08-14247	**$978.75**
8120-G/OH MAIN Aux Boost Pump	08-14248	**$782.00**
81250-H OH Pump	08-14249	**$782.00**
8120-J/OH Pump	08-14250	**$782.00**
8120-K/OH Pump	08-14251	**$782.00**
8120-M/OH Pump	08-14252	**$778.00**
8123-H/OH Pump	08-14253	**$782.00**
8136-B/OH Pump	08-14254	**$782.00**
8140-B OH Pump	08-14255	**$782.00**
8150-B OH AUX Transfer Pump	08-14296	**$844.00**
8152-B OH Pump	08-14297	**$844.00**
8153-C OH Pump	08-14298	**$844.00**
8154-A OH Pump	08-14299	**$844.00**
8154-B OH Pump	08-14300	**$844.00**
8157-B OH Pump	08-14301	**$844.00**
8158-A OH Pump	08-14302	**$844.00**
8158-B OH Pump	08-14303	**$844.00**
8159-A OH Pump	08-14304	**$844.00**
8160-B OH Pump	08-14305	**$844.00**
8163-A OH Pump	08-14306	**$844.00**
8163-B OH Pump	08-14307	**$844.00**
8164-A OH Pump	08-14308	**$844.00**
8168-A OH Pump	08-14309	**$844.00**
8169-A OH Pump	08-14310	**$844.00**
8170-A OH Pump	08-14311	**$844.00**
8171-B OH Pump	08-14312	**$844.00**
8172-A OH Pump	08-14313	**$844.00**
8174-A OH Pump	08-14314	**$844.00**
8174-B OH Pump	08-14315	**$844.00**
8175-A OH Pump	08-14316	**$844.00**
8175-B OH Pump	08-14317	**$844.00**
8176-B OH Pump	08-14318	**$844.00**
8177-A OH Pump	08-14319	**$844.00**
8177-B OH Pump	08-14320	**$830.00**
8178-A OH Pump	08-14321	**$830.00**
18024-A OH Fuel Boost Pump	08-16169-1	**$893.75**
18026-A OH Pump	08-16170-1	**$893.75**
8178-B OH Pump	08-14322	**$844.00**
8179-A OH Pump	08-14323	**$844.00**
8180-B/OH Pump	08-14324	**$844.00**
8190-B OH Pump	08-14325	**$844.00**

Description	Part Number	Price
10024-B OH Pump	08-14367	**$830.00**
10028-A OH Pump	08-14368	**$830.00**
10054-A OH Pump	08-14356	**$869.00**
10054-B OH Pump	08-14357	**$869.00**
10062-B OH Pump	08-14358	**$869.00**
10080-B OH Pump	08-14386	**$1,244.00**
10080-D OH Pump	08-14387	**$1,244.00**
100-828-1106 OH Pump	08-14395	**$1,439.00**
10084-A OH Pump	08-14388	**$1,244.00**
10088-A OH Pump	08-14389	**$1,244.00**
10090-A/OH Pump	08-14390	**$1,244.00**
18000-A OH MAIN Aux Boost Pump	08-14202	**$669.00**
18000-B OH MAIN Aux Boost Pump	08-14203	**$669.00**
18002-B OH MAIN Aux Boost Pump	08-14204	**$669.00**
18002-B8 OH MAIN Aux Boost Pump	08-14205	**$919.00**
18004-A8 OH MAIN Aux Boost Pump	08-14206	**$919.00**
18005-B OH Pump	08-14207	**$919.00**
18006-A OH Pump	08-14208	**$919.00**
18006-A8 OH Pump	08-14209	**$919.00**
18007-A8 OH Pump	08-14210	**$919.00**
18008-B8 OH Pump	08-14211	**$919.00**
18010-B8 OH Pump	08-14212	**$919.00**
18011-B OH Pump	08-14213	**$919.00**
18013-B OH FUEL Transfer Pump	08-14214	**$919.00**
18014-B8 OH Pump	08-14215	**$919.00**
18015-B OH Pump	08-14216	**$919.00**
18020-A OH MAIN Aux Boost Pump	08-14217	**$919.00**
18021-A OH MAIN Aux Boost Pump	08-14218	**$919.00**
18021-A8 OH Pump	08-16168-1	**$919.00**
18021-B OH MAIN Aux Boost Pump	08-14219	**$893.75**
18022-B8 OH Pump	08-14220	**$919.00**
18023-A OH MAIN Aux Boost Pump	08-14221	**$919.00**
18028-B8 OH Pump	08-14222	**$919.00**
19001-B OH Pump	08-14397	**$817.00**
A4033-E OH Pump	08-14231	**$1,439.00**
A8008-D/OH Pump	08-14256	**$782.00**
A8009-A/OH Pump	08-14257	**$782.00**
A8009-B OH Pump	08-14258	**$782.00**
A8016-B OH Pump	08-14284	**$782.00**
A8016-B1/OH Pump	08-14259	**$782.00**
A8017-A/OH Pump	08-14260	**$782.00**
A8019-A/OH Pump	08-14261	**$782.00**
A8110-F OH Pump	08-14262	**$782.00**
A8110-G OH MAIN AUX Pump	08-14263	**$782.00**
A8120-B OH Pump	08-14291	**$782.00**
A8120-C OH MAIN AUX Pump	08-14292	**$782.00**
A8120-D OH Pump	08-14293	**$782.00**
A8121-B OH Pump	08-14294	**$782.00**
A8122-A OH Pump	08-14295	**$782.00**
A8123-H/OH Pump	08-14264	**$782.00**
A8127-A/OH Pump	08-14265	**$782.00**
A8127-B OH Pump	08-14266	**$782.00**
A8136-B OH Pump	08-14267	**$782.00**
A8148-A OH Pump	08-14268	**$782.00**
A8148-B OH Pump	08-14269	**$782.00**
A8150-B OH Pump	08-14326	**$844.00**
A8150-B1 OH Pump	08-14327	**$830.00**
A8152-B OH Pump	08-14328	**$844.00**
A8153-B OH Pump	08-14329	**$844.00**
A8153-C OH Pump	08-14330	**$844.00**
A8159-A OH Pump	08-14331	**$844.00**
A8160-B OH Pump	08-14332	**$844.00**
A8160-D OH Pump	08-14333	**$844.00**
A8163-A OH Pump	08-14334	**$844.00**

EP

CORE CHARGES APPLY. SEE OUR WEBSITE FOR APPLICATION CHART.

Prices Subject to Change Without Notice

Description	Part Number	Price
A8163-A1 OH Pump	08-14335	**$844.00**
A8163-B OH Pump	08-14336	**$844.00**
A8165-A OH Pump	08-14337	**$844.00**
A8168-A OH Pump	08-14338	**$844.00**
A8170-A OH Pump	08-14339	**$844.00**
A8171-A OH Pump	08-14340	**$844.00**
A8172-A OH Pump	08-14341	**$844.00**
A8174-B OH Pump	08-14342	**$844.00**
A8176-B OH Pump	08-14343	**$844.00**
A8177-A OH Pump	08-14344	**$844.00**
A8177-B OH Pump	08-14345	**$844.00**
A8179-A OH Pump	08-14346	**$844.00**
A8181-A OH Pump	08-14347	**$844.00**
A8183-A OH Pump	08-14348	**$844.00**
A8184-A OH Pump	08-14349	**$844.00**
A8185-B OH Pump	08-14350	**$844.00**
A8186-B OH Pump	08-14351	**$844.00**
A8187-B OH Pump	08-14352	**$812.50**
A8188-B OH Pump	08-14353	**$844.00**
A8189-B OH Pump	08-14354	**$844.00**
A8250-B OH Pump	08-14355	**$844.00**
AA8001-G OH Pump	08-14270	**$782.00**
AA8001-H OH Pump	08-14271	**$782.00**
A10008-F OH Pump	08-14373	**$844.00**
A10009-F OH Pump	08-14374	**$844.00**
A10014-D OH Pump	08-14375	**$907.00**
A10014-D40 OH Pump	08-14376	**$892.00**
A10014-D42 Oh Pump	08-16181	**$892.00**
A10014-D42 OH Pump	08-14377	**$799.00**
A10014-D44 OH Pump	08-14378	**$907.00**
A10017-C OH Pump	08-14379	**$907.00**
A10019-C OH Pump	08-14380	**$907.00**
A10019-E OH Pump	08-14381	**$907.00**
A10050-C OH Pump	08-14359	**$869.00**
A10050-D OH Pump	08-14360	**$869.00**
A10051-D OH Pump	08-14361	**$869.00**
A10053-A OH Pump	08-14362	**$869.00**
A10053-B OH Pump	08-14363	**$869.00**
A10055-B OH Pump	08-14364	**$869.00**
A10056-B OH Pump	08-14365	**$869.00**
A10063-A OH Pump	08-14366	**$869.00**
B8001-G OH AUX Pump	08-14272	**$782.00**
B8001-H OH AUX Pump	08-14273	**$782.00**
B8009-A OH Pump	08-14274	**$782.00**
B8103-F OH Pump	08-14275	**$782.00**
B8110-F OH Pump	08-14276	**$782.00**
B8110-G OH Pump	08-14277	**$782.00**
B8120-G OH MAIN AUX Pump	08-14278	**$782.00**
B8120-H OH Pump	08-14279	**$782.00**
B8120-J OH Pump	08-14280	**$782.00**
B8120-K OH Pump	08-14281	**$782.00**
B10000-F OH Pump	08-14382	**$834.00**
B10007-D OH Pump	08-14383	**$844.00**
B10010-F OH Pump	08-14384	**$2,394.00**
B10014-F OH Pump	08-14385	**$795.00**
C4033-E/OH Unfeathering Pump	08-14232	**$1,439.00**
C8009-B OH Pump	08-14283	**$782.00**
C8100-E OH Pump	08-14285	**$782.00**
C8100-F OH Pump	08-14286	**$782.00**
C8100-J OH MAIN FUEL BOOST Pump	08-14287	**$1,244.00**
C8100-L OH Pump	08-14288	**$1,244.00**
D8100-E OH Pump	08-14289	**$782.00**
D8100-F OH MAIN AUX Pump	08-14290	**$782.00**
T18009-B8 OH Pump	08-14223	**$1,032.00**

WELDON POPPET BODY ASSEMBLIES

Description	Part Number	Price
Weldon 100109 Body Assembly	08-14087	**$500.00**
Weldon 100109-b Body Assembly	08-14091	**$515.00**
Weldon 8206-a Body Assy (W/valve)	08-14175	**$515.00**
Weldon 8210-a Body Assy (W/valve)	08-14176	**$515.00**
Weldon 8211-a Body Assembly	08-14177	**$515.00**
Weldon 8219-a Body Assy (W/valve)	08-14178	**$515.00**
Weldon 8220-a Body Assembly	08-14179	**$515.00**

SEE OR WEBSITE FOR WELDON POPPET, POPPET VALVE COVERS, AND POPPET VALVES.

WELDON MAIN AUX BOOST PUMPS

Core charge applies at check out. Please see Weldon Application Guide prior to placing order and note the guide is for reference only, and cross checking your Overhaul Repair Manual is encouraged.

Description	Part Number	Price
New Main Aux Boost Pump 18021-a	08-14014	**$1,227.00**
New Main Aux Boost Pump 18021-b	08-14015	**$1,301.00**
New Main Aux Boost Pump 18023-a	08-14016	**$1,301.00**
New Main Aux Boost Pump 2000-a	08-14017	**$2,530.86**

TEMPEST REBUILT FUEL PUMP RG-9080J4A/M

Tempest rebuilt fuel pump RG-9080J4A/M for engine model TIO-360-A3B6.

P/N 05-15063................**$859.00**

TEMPEST REBUILT FUEL PUMP RG17980J

Tempest rebuilt fuel pump RG17980J for engine model: IO-360-B1D, IO-540-A1A5, IO-540-G1D5 , O-540-K1C5, IO-540-K1F5, IO-540-L1A5, TIO-540-A2B, TIO-540-C1A, TIO-540-G1A, TIO-540-H1A.

P/N 07-00277................**$839.00**

TEMPEST ROMEC / CRANE FUEL PUMP REBUILT QUICK KITS

The next time you rebuilt your fuel components, don't spend time on the phone chasing parts, just order a "Quick Kit" and take the hassle out of your rebuilt. Quick Kits include the mandatory replacement parts, plus the parts used by fuel professionals to insure the job is done right!

Fuel Servo No.	Model No.	Our Part No.	Quick Kit No.	Price
RG-9080	2, F1, F2, G1, G2, J1, J2, J3, J4, J5, J7A, J4A	07-09080-0	CFK-9080-0	**$248.95**
RG-15980	A, B, B1, C, D, E, F ,G ,N, N1, P, P1, R, R1, S, S1	07-15980	CFK-15980	**$93.85**

CORE CHARGES APPLY. SEE OUR WEBSITE FOR APPLICATION CHART.

FUEL PUMPS

CJ AVIATION NEW AND NEW EXCHANGE FUEL PUMPS

New FAA–PMA Direct Replacement Fuel Boost Pumps for Cessna, Beech, Diamond, Navion, Maule, Mooney, Lake and Diamond Aircraft. These certified drop in replacement pumps have a new improved check valve and more efficient motor. There are no Service Bulletins which eliminates the 10 year overhaul requirements. Pumps are warrantied for two years or 300 hours. Exchange pumps are in stock and CJ Aviation, Inc. is willing to drop ship on behalf of Aircraft Spruce for quicker delivery. All pumps come with 8130's and technical support from the manufacturer.

NEW OUTRIGHT FUEL PUMPS

Model No.	OEM No.	Description	Part No.	Price
4140-00-15CJ	4140-00-15	4140-00-15CJ CJ Fuel Pump New	05-07962	**$739.00**
4140-00-17CJ	4140-00-17	4140-00-17CJ CJ Fuel Pump New	05-07974	**$735.00**
5100-00-9CJ	5100-00-9	5100-00-9CJ CJ Fuel Pump New	05-10550	**$798.00**

NEW EXCHANGE FUEL PUMPS

Model No.	OEM No.	Description	Part No.	Price
1184-00-3CJ	1184-00-3	1184-00-3CJ CJ Fuel Pump New Exchange	05-07965	**$1,250.00**
1296-00-1NVCJ	1296-00-1NV	1296-00-1NVCJ CJ Fuel Pump New Exchange	05-07966	**$1,250.00**
1471-00-3CJ	1471-00-3	1471-00-3CJ CJ Fuel Pump New Exchange	05-07967	**$1,250.00**
4140-00-153CJ	4140-00-153	4140-00-153CJ CJ Fuel Pump New Exchange	05-07983	**$1,250.00**
4140-00-15CJ	4140-00-15	4140-00-15CJ CJ Fuel Pump New Exchange	05-07969	**$685.00**
4140-00-17CJ	4140-00-17	4140-00-17CJ CJ Fuel Pump New Exchange	05-07976	**$685.00**
4140-00-17NCJ	4140-00-17N	4140-00-17NCJ CJ Fuel Pump New Exchange	05-07977	**$1,250.00**
4140-00-19ACJ	4140-00-19A	4140-00-19ACJ CJ Fuel Pump New Exchange	05-07978	**$1,250.00**
4140-00-21ACJ	4140-00-21A	4140-00-21ACJ CJ Fuel Pump New Exchange	05-07979	**$1,250.00**
4140-00-39NVCJ	4140-00-39NV	4140-00-39NVCJ CJ Fuel Pump New Exchange	05-07981	**$1,250.00**
4140-00-400CJ	4140-00-400	4140-00-400CJ CJ Fuel Pump New Exchange	05-07986	**$1,250.00**
4140-00-401CJ	4140-00-401	4140-00-401CJ CJ Fuel Pump New Exchange	05-07987	**$1,250.00**
4140-00-57CJ	4140-00-57	4140-00-57CJ CJ Fuel Pump New Exchange	05-07982	**$1,250.00**
4140-00-7NVCJ	4140-00-7NV	4140-00-7NVCJ CJ Fuel Pump New Exchange	05-07968	**$1,250.00**
4258-00-15NVCJ	4258-00-15NV	4258-00-15NVCJ CJ Fuel Pump New Exchange	05-07988	**$1,250.00**
4404-00-7NVCJ	4404-00-7NV	4404-00-7NVCJ CJ Fuel Pump New Exchange	05-07989	**$1,250.00**
4613-00-3NVCJ	4613-00-3NV	4613-00-3NVCJ CJ Fuel Pump New Exchange	05-07991	**$1,250.00**
4613-00-5NVCJ	4613-00-5NV	4613-00-5NVCJ CJ Fuel Pump New Exchange	05-07992	**$1,250.00**
5100-00-4CJ	5100-00-4	5100-00-4CJ CJ Fuel Pump New Exchange	05-07993	**$1,250.00**
5100-00-9CJ	5100-00-9	5100-00-9CJ CJ Fuel Pump New Exchange	05-07994	**$739.00**

NOTE: A CORE CHARGE APPLIES TO ALL EXCHANGE FUEL PUMPS. REFER TO OUR WEBSITE FOR DETAILS ON THE CJ AVIATION CORE POLICY.

OVERHAULED EXCHANGE FUEL PUMPS

Model No.	Description	Part No.	Price
1184-00-3	1184-00-3 Fuel Pump O/H Exchange	05-07997	**$1,186.00**
1296-00-1NV	1296-00-1NV Fuel Pump O/H Exchange	05-07999	**$1,050.00**
1500-00-31	1500-00-31 Fuel Pump O/H Exchange	05-08003	**$1,050.00**
4140-00-11NV	4140-00-11NV Fuel Pump O/H Exchange	05-08007	**$1,050.00**
4140-00-135	4140-00-135 Fuel Pump O/H Exchange	05-08018	**$1,050.00**
4140-00-17	4140-00-17 Fuel Pump O/H Exchange	05-08011	**$1,081.00**
4140-00-184	4140-00-184 Fuel Pump O/H Exchange	05-08019	**$1,050.00**
4140-00-19B	4140-00-19B Fuel Pump O/H Exchange	05-08012	**$1,050.00**
4140-00-1NV	4140-00-1NV Fuel Pump O/H Exchange	05-08006	**$1,050.00**
4140-00-21A	4140-00-21A Fuel Pump O/H Exchange	05-08013	**$1,050.00**
4140-00-218	4140-00-218 Fuel Pump O/H Exchange	05-08021	**$1,050.00**
4140-00-400	4140-00-400 Fuel Pump O/H Exchange	05-08022	**$1,050.00**
4140-00-47	4140-00-47 Fuel Pump O/H Exchange	05-08016	**$1,050.00**
4140-00-57	4140-00-57 Fuel Pump O/H Exchange	05-08017	**$1,050.00**
4404-00-7NV	4404-00-7NV Fuel Pump O/H Exchange	05-08023	**$1,050.00**
4613-00-3NV	4613-00-3NV Fuel Pump O/H Exchange	05-08024	**$1,050.00**
4140-00-39NV	4140-00-39NV Fuel Pump O/H Exchange	05-08014	**$1,050.00**

WELDON PUMP OVERHAUL/EXCHANGES

		JC LIP SEAL			
Model	**Part No.**	**Price**	**Model**	**Part No.**	**Price**
8150-B	08-14296	**$844.00**	8163-A	08-14306	**$844.00**
8159-A	08-14304	**$844.00**	8163-B	08-14307	**$844.00**
		JC FACE SEAL			
Model	**Part No.**	**Price**	**Model**	**Part No.**	**Price**
A8150-B	08-14326	**$844.00**	A8163-B	08-14366	**$869.00**
A8150-B1	08-14327	**$830.00**	A8164-A	08-14337	**$844.00**
A8163-A	07-00785	**$1,217.00**			
		J LIP SEAL			
Model	**Part No.**	**Price**	**Model**	**Part No.**	**Price**
33959-2	08-14233	**$782.00**	A8110-G	08-14263	**$782.00**
33959-3	08-14234	**$782.00**	B8001-G	08-14272	**$782.00**
8120-H	08-14249	**$782.00**	B8001-H	08-14273	**$782.00**
			C8100-E	08-14285	**$782.00**
			C8100-F	08-14286	**$782.00**
		J FACE SEAL			
Model	**Part No.**	**Price**	**Model**	**Part No.**	**Price**
B8110-G	08-14277	**$782.00**	B8120-G	08-14278	**$782.00**
			B8120-H	08-14278	**$782.00**
		JA SERIES			
Model	**Part No.**	**Price**	**Model**	**Part No.**	**Price**
A8120-C	**Call For Quote**				

EP

Prices Subject to Change Without Notice

These aviation pumps are only intended to be groundbased or vehicle mounted. Do not use or mount in or on the aircraft. For use with aviation gasoline (AVGAS 100LL) and kerosene grade (JET A). User should consult NFPA 407 Standard for aircraft fuel servicing for safety requirements during ground fuel servicing of aircraft using liquid petroleum fuels. This product has no actual or implied compliance with this standard. Warranty is 2 years.

M-150S-AV-PO

M-3025-CB-AV-PO

M-3120-AV-PO

M-3130-AV-PO

PUMPS

Pumps Model No.	M-150S-AV-PO	M-3025-CB-AV-PO	M-3120-AV-PO	M-3130-AV-PO
Part No.	08-07463	08-07464	08-07465	08-07466
Price	**$363.00**	**$721.00**	**$695.00**	**$1,146.00**
Volt	12-Volt	12-Volt	115-Volt	115/230-Volt
GPM	15 GPM / 57 LPM	25 GPM / 95 LPM	20 GPM / 75 LPM	30 GPM / 114 LPM
Approvals	Motor is U.L. Listed to U.S. and Canadian Standards			
Use With	Gasoline, Gasoline/Ethanol blends at levels designated as "gasohol" (E10 maximum), diesel, kerosene and aviation fuels gasoline (AVGAS 100LL) and kerosene grade (JET A).			

METERS

Meter Model No. & Part No. Price	08-07464	MR-5-30-G8N, Aviation	**$721.00**
	08-07468	MR-5-30-L8N, Aviation	**$246.95**
Flow Range	5-30 GPM (19-114 LPM)		
Use with	Gasoline, Gasoline/Ethanol blends at levels designated as "gasohol" (E10 maximum), diesel, kerosene, aviation gasoline (AVGAS 100LL) and kerosene grade (JET A).		

COMBOS

Model No. & Part No. Price				
	Calibrated in Gallons	08-07469	M-3025CB-AV-PO / MR 5-30-G8N	**$978.00**
		08-07470	M-3120-AV-PO / MR 5-30-G8N	**$914.00**
		08-07471	M-3130-AV-PO / MR 5-30-G8N	**$1,369.00**
	Calibrated in Liters	**Special Order. Please request a quote.**	M-3025CB-AV-PO / MR 5-30-L8N	**Special Order. Please request a quote.**
			M-3120-AV-PO / MR 5-30-L8N	
			M-3130-AV-PO / MR 5-30-L8N	

HARTZELL FUEL PUMPS

FAA/PMA Approved **202F** series Fuel Pumps for Lycoming Engines from Hartzell Engine Technologies.
HET **202F** series are a direct replacement for the Crane/Lear Romec RG9570 series engine driven fuel pumps.
Applicable for use on a wide variety of Lycoming engines. The 202F series fuel pumps include two part numbers covering specific installations:

Description	Lear/romec Replacement	Lycoming Replacement	Beech Replacement	Part No.	Price
202F-1001	RG9570k1, RG9570k1/M	62E22586	Beech 50-389141-1	07-03534	**$2975.00**
202F-1002	RG9570p1, RG9570p1/M	62E22585, LW-19012	--	07-03537	**$2975.00**

The OEM pump on fuel injected Lycoming engines with high flow and pressure requirements. The **201F** series are also available as FAA-PMA approved replacements for the Lear Romec RG17980 series of fuel pumps.
Medium capacity engine driven positive displacement fuel pump Carbon vanes for improved wear characteristics. Tightly toleranced for improved pump performance and low pressure fluctuation.

Description	Lear/romec Replacement	Lycoming Replacement	Part No.	Price
201F-5001	RG17980/M	62D22565	07-01751	**$1,976.00**
201F-5002	RG17980A/M	62D22566	07-01752	**$1,976.00**
201F-5003	RG17980D/M	62D22567	07-01753	**$1,974.00**
201F-5004	RG17980E/M	62D22568	07-01754	**$1,976.00**
201F-5005	RG17980J/M	62D22569	07-01755	**$1,976.00**
201F-5006	RG17980K/M	62D22570	07-01756	**$1,976.00**
201F-5007	RG17980P/M	62D22572	07-01757	**$1,976.00**
201F-5008	RG17980U/M	62D22573	07-01758	**$1,970.00**

The OEM pump on fuel injected Lycoming engines with high flow and pressure requirements. The **200F** series are also available as FAA-PMA approved replacements for the Lear Romec RG9080 series of fuel pumps.
High capacity engine driven positive displacement fuel pump Carbon vanes for improved wear characteristics. Tightly toleranced for improved pump performance and low pressure fluctuation

Description	Lear/romec Replacement	Lycoming Replacement	Part No.	Price
200F-5001	RG9080F2/M	62E22580	07-01746	**$2,057.00**
200F-5002	RG9080J4A/M	62E22581	07-01747	**$2,067.00**
200F-5003	RG9080J6A/M	62E22582	07-01748	**$2,058.00**
200F-5004	RG9080J7A/M	62E22583	07-01749	**$2,058.00**
200F-5005	RG9080J8A/M	62E22584	07-01750	**$2,058.00**

ANDAIR FUEL BOOST PUMPS

PX375-TC Boost Pump for 3/8" Fuel Lines: • Integral bypass and pressure relief valve • 11-14V DC, 6 amps max • Weight: 460g (16.23 oz) • Fittings: 1/4 NPT input, AN-6 male output • 1/4 NPT to AN-6 adapter included • Suitable for injection engines such as Lycoming IO320, IO360, IO540 etc. It is strongly recommended that a filter is fitted upstream of the pump. The output of this FX375-MK filter can be fitted directly to the input of this pump.

PX500-TC Boost Pump for 1/2" Fuel Lines: • Integral bypass and pressure relief valve • 11-14V DC, 6 amps max • Weight: 470g (16.23 oz) • Fittings: 3/8 NPT input, AN-8 male output • 3/8 NPT to AN-8 adapter included • Suitable for injection engines such as Lycoming IO540 etc. It is strongly recommended that a filter is fitted upstream of the pump. The output of this FX500-MK filter can be fitted directly to the input of this pump.

PX375-TC Pump for 3/8" Fuel Lines ....P/N 05-12559 ....**$769.00**
PX500-TC Pump for 1/2" Fuel Lines ....P/N 07-01334 ....**$763.00**

ANDAIR FILTERS

FX375-MK for 3/8" Lines ....P/N 05-12560 ....**$83.65**
FX500-MK for 1/2" Lines ....P/N 05-12561 ....**$83.65**

ANDAIR FUEL PUMP KITS

EP

Engine Size	Description	Andair PN	Contents	PN	Price
IO320 - IO360	Filter Pump Kit	FPK-360	Boost Pump 3/8", Fuel Filter	07-01352	**$847.00**
IO320 - IO360	Fuel System Deluxe	FS-DE-LUXE-360	Boost Pump 3/8", Fuel Filter, Type 7 Valve, Gascolator, Bulkhead Fitting	07-01354	**$1,254.00**
IO320 - IO360	Fuel System Super Deluxe	FS-S/DE-LUXE-360	Boost Pump 3/8", Fuel Filter, Type 7 Valve, 2-Gascolators, Bulkhead Fitting	07-01355	**$1,593.00**
IO540 - IO580	Filter Pump Kit	FPK-540	Boost Pump 1/2", Fuel Filter	07-01357	**$849.00**
IO540 - IO580	Fuel System Deluxe	FS-DE-LUXE-540	Boost Pump 1/2", Fuel Filter, Type 7 Valve, Gascolator, Bulkhead Fitting	07-01358	**$1,272.00**
IO540 - IO580	Fuel System Super Deluxe	FS-S/DE-LUXE-540	Boost Pump 1/2", Fuel Filter, Type 7 Valve, 2-Gascolators, Bulkhead Fitting	07-01359	**$1,437.00**

DUKES OVERHAULED FUEL PUMPS

Dukes Aerospace Fuel Pumps are available on an overhaul exchange basis. All fuel pumps are overhauled in accordance with factory specifications and contain 100% OEM parts. Attention: There will be an additional Core Charge per order.

Model No.	Part No.	Price
1184-00-1	08-07563	**$970.00**
1296-00-1	08-07565	**$985.00**
1458-00-1	08-07567	**$986.00**
1471-00-3	08-07568	**$1,431.00**
1499-00-21NV	08-07569	**$1,449.00**
1500-00-35	08-07571	**$1,455.00**
1500-00-38	08-07572	**$1,431.00**
1515-00-1	08-07573	**$1,431.00**
1521-00-1	08-07574	**$1,361.00**
1816-00-1NV	08-07575	**$1,461.00**
4140-00-153	08-07576	**$1,431.00**
4140-00-19A	08-07578	**$1,451.00**
4140-00-1	08-07579	**$1,431.00**
4140-0-218	08-07580	**$1,049.00**
4140-00-21A	08-07581	**$1,450.00**
4140-00-39	08-07582	**$1,450.00**
4140-00-57	08-07583	**$1,449.00**
4150-00-1	08-07584	**$1,448.00**
4258-00-15	08-07585	**$1,450.00**
4404-00-404	08-07586	**$1,449.00**
4404-00-7	08-07588	**$1,448.00**
4613-00-5NV	08-07589	**$1,431.00**
5100-00-19	08-07590	**$1,449.00**
5217-00-3	08-07592	**$1,435.00**
1499-00-19	08-07593	**$1,431.00**
1500-00-42	08-07594	**$1,449.00**
4140-00-7	08-07595	**$1,450.00**
4140-00-11	08-07596	**$1,449.00**
4140-00-17	08-07597	**$1,439.00**
4140-00-67	08-07598	**$1,295.00**
4140-00-198	08-07599	**$1,295.00**
4140-00-311	08-07600	**$1,449.00**
4258-00-21	08-07601	**$1,449.00**
4634-00	08-07602	**$1,449.00**
5100-00-9	08-07603	**$1,450.00**
5288-00-1	08-07604	**$1,295.00**
5367-00-1	08-07605	**$1,431.00**
5596-00-1	08-07606	**$1,449.00**

RAPCO DUKES OVERHAULED FUEL PUMPS

Model No.	PN	Price
4140-00	08-13508	**$938.00**
4140-00-103	08-13509	**$938.00**
4140-00-153	08-13510	**$938.00**
4140-00-17	08-13511	**$937.00**
4140-00-191	08-13512	**$938.00**
4140-00-19A	08-13513	**$938.00**
4140-00-1	08-13514	**$938.00**
4140-00-11	08-13515	**$938.00**
4140-00-218	08-13516	**$938.00**
4140-00-21A	08-13517	**$937.00**
4140-00-220	08-13518	**$938.00**
4140-00-301	08-13519	**$938.00**
4140-00-311	08-13520	**$938.00**

Model No.	PN	Price
4140-00-39	08-13521	**$937.00**
4140-00-47	08-13522	**$938.00**
4140-00-57	08-13523	**$938.00**
4140-00-7	08-13524	**$938.00**
4258-00-15	08-13525	**$1,052.00**
4404-00-7	08-13526	**$1,158.00**
4404-00-8	08-13527	**$1,158.00**
4613-00-1	08-13528	**$1,158.00**
4613-00-3	08-13529	**$1,158.00**
4613-00-5	08-13530	**$1,158.00**
1171-00-1	08-13531	**$1,052.00**
1184-00-3	08-13533	**$1,049.00**

Model No.	PN	Price
1420-00-1	08-13535	**$1,131.00**
1429-00-1	08-13536	**$1,131.00**
1458-00-1	08-13537	**$850.00**
1471-00-3	08-13538	**$1,052.00**
1499-00-19	08-13539	**$1,135.00**
1499-00-21	08-13540	**$1,131.00**
1500-00-22	08-13541	**$1,132.00**
1500-00-35	08-13542	**$1,052.00**
1500-00-38	08-13543	**$1,052.00**
1500-00-65	08-13544	**$1,131.00**
1500-00-67	08-13545	**$1,131.00**
1515-00-1	08-13546	**$1,052.00**

ELECTRIC FUEL TRANSFER PUMPS

Heavy Duty Industrial Grade Fuel pumps designed for everyday use in: Agricultural, Construction, Automotive, Industrial, Racing & Boating applications. Rain & Weather proof for tough outdoor use Lightweight, yet strong non corroding Aluminum Die cast construction. With a geared pump design using precision sintered metal gears and sintered geared construction makes this pump more tolerant than plastic gear designs; in addition to offering tremendous suction & minimal noise. This design is such that the motor cannot be switched on without removing nozzle from the nozzle hanger. The low current draw increases usage life from a single charge of battery on DC pump model UL & cUL listed Motor. Duty Cycle: 30 Minutes On / 30 Minutes Off. Recommended Use: Gasoline, Diesel.

12V Electric Gas Pump FPM-12...................P/N 08-07610 ....**$424.00**
115V Electric Gas Pump FPM-11525...........P/N 08-07609 ....**$526.00**

ROTARY FUEL PUMP

Industry Standard for Rotary pumps; these are by far the heaviest duty, for severe outdoor use in extreme weather conditions. Deliver media with a head / lift up to 20' solid cast iron construction, fully CNC machined to close tolerances. Pump handle rotates a high quality sintered powder metal 3 vane rotor inside a highly finished pumping chamber. The graphite veins are self lubricating & non wearing with high quality graphite seal that allows the pump to be used with a wide variety of fluids including diesel with up to 15% ethanol blend. This pump has self priming operation with discharge up to 38 LPM (10 GPM). Also supplied complete with 2" Bung, Telescopic Suction Tube with Strainer for use with 15 gallons (50 litre) – 55 gallons (205 litre) barrels. DO NOT USE With Water Based Media.............................P/N 08-07611 ....**$298.00**

SAFETY FLOW FUEL PUMP & CONTAINER

Quickly safely and easily fill your fuels or chemicals with this 5 gpm rotary pump & 7 gallon container. Ideal for Airlines, boaters, Racecars, factories, job shops, auto repair, labs, farms, etc. Pumps: Diesel, gasoline, oil, alcohols, E85, ethanol, nitro, antifreeze, transmission fluid. Tether safety clamp makes for safe transfer of liquids even with one person. Static line included for additional safety. Cart not included

P/N 08-07612 ....**$269.00**

FM RATED & GROUNDED FUEL PUMPS

Stainless steel and carbon steel FM rated pumps. 30% of all calls are for FM rated hand pumps. These are ideal for lower volume users comes with safety straps and clamps.

Carbon Chrome
P/N 08-07613...**$240.95**

Stainless Steel FM Approved
P/N 08-07614...**$375.00**

BUNG NUT DRUM WRENCH

Non-Sparking Aluminum Bung Nut Wrench: Use to install or remove large and small drum plugs and install faucets. Accommodates most common bungs also, tightens or loosens drum rings.

P/N 08-07615 ....**$15.85**

WALBRO FUEL PUMP

This WIP-11 include a bracket to mount the pumps in place. This bracket is bolted to a solid surface with two 8-32 coarse thread bolts.

P/N 15-06246 ....**$22.00**

BIG R POWER SPRAYING SYSTEMS

BIGR: All steel construction for durability with large rubber feet for stability and ships fully assembled. Also utilizes a circuit breaker instead of fuses; protecting the operator and eliminating the need to search for fuses. Pressure sensitive switch shuts off pump when you stop spraying, preventing bursting hoses and product separation or damage. This feature can be by-passed with our pressure activated re-circulator. Multiple power options available including: 115vac includes standard 9' power cord, 230vac includes standard 9' power cord, 12vdc includes standard 25' power cord w/ battery clamps.

In the Box:
1 - spray control gun with comfort grip handle and quick connect, open flow fittings
1 - 18" straight brass wand section
1 - 18" curved brass wand section
1 - 1gal. per minute brass fan tip
1 - adjustable brass fan nozzle
100' safety yellow 3/8" chemical resistant hose with quick connect open flow fittings, chemical resistant diaphragm and seals in pump and reel.

115 VAC ....P/N 08-07617 ....**$476.00**
230 VAC ....P/N 08-07618 .....**$1,207.00**
12VDC ....P/N 08-07619 .....**$1,192.00**

7GPM SIPHON PUMP FOR DRUMS

7 gpm bellow action siphon pump includes 4ft. discharge hose and 2" bung, fits 15-30-55 gallon barrels. Pump,Siphon,7 GPM Drum Pump, Siphon, 500 SSU, Outlet Size 1 Inch Outside Diameter, Suction Design Tube, Suction Pipe Size Outside Diameter 1 In, Adapter Type 2 Inch NPT Bung, Fits 15, 30 and 55 Gallon Drums, Piston Polyethylene, Pump Body Material Polyethylene, Max Temp 140 Degree F, Includes Discharge Tubing, Discharge Tubing Material Corrugated Flexible Polyethylene, Internal Parts Material Polyethylene, Overall Length 45 3/4 In, Self Priming, Suction Tube 34 Inches Long.

P/N 08-07616 ....**$16.50**

EP

DOUBLE DIAPHRAGM LEVER PUMP

Steel and aluminum, telescoping intake tube from 22" to 39". 3/4" inlet and outlet delivers approx. 1 gal. per ten strokes. Longwearing. Double-action piston pump for durability. Ideal for dispensing gasoline, diesel fuel, and similar petroleum products.

P/N 08-07622 ....**$199.95**

PISTON PUMP FOR AGGRESSIVE CHEMICALS

Stainless Steel & PTFE Hand Pump 22oz. Stroke T-Handle Pump Stainless and PTFE hand pump ideal for transferring your aggressive chemicals. Includes 2" bung 41" long body,1-1/2" outer body diameter. P/N 08-07623 ....**$98.75**

STAINLESS STEEL ROTARY PUMP

10 GPM Stainless Steel rotary drum pump 40 inch intake tube.Drum Pump, Rotary Chemical, 5000 SSU, Curved Discharge Spout, Outlet Size 3/4 Inch UNF, Suction Design 3 Piece Tube, Tube Material 304 SS, Adapter Type 1 1/2 x 2 Inch NPT Bung, Fits 15, 30 and 55 Gallon Drums, Pump Body Material 304 SS, PTFE Seal, Max Temp 140 Degree F, Includes Suction Tube, GPM 10 @135 RPM, Discharge Tubing Material 304 SS, Internal Parts Material PTFE and 304 SS, Inlet Size 1 Inch FNPT, Overall Length 53 In, Self Priming, Suction Tube 40 Inches Long 14lbs. ship wt.

P/N 08-07624 ....**$495.00**

OVERHAULED BENDIX MAGNETOS BY KELLY AEROSPACE

Core charges apply to all Overhauled Magnetos.

Model	Part Number	Price
10-51360-29	10-51360-29	**$645.00**
10-682555-11R DU	10-682555-11R	**$2,061.00**
10-51360-37R	10-51360-37R	**$784.00**
10-682555-14R	10-68255-14	**$2,102.00**
10-349370-4R	10-349370-4R	**$715.00**
10-349310-1R	10-349310-1R	**$579.00**
10-682560-11R	07-02976	**$2,068.00**
10-51360-27	10-51360-27R	**$667.00**
10-51365-39R	10-51365-39R	**$749.00**
10-79020-10R	10-79020-10R	**$649.00**
10-163050-9R	10-16305-9	**$586.00**
10-51365-47R	10-51365-47R	**$730.00**
10-51360-28R	10-51360-28R	**$669.00**
10-600614-1	07-01799	**$642.00**
10-163005-11R	07-01523	**$571.00**
10-163005-3R	07-01524	**$571.00**
10-163010-10R	07-01525	**$586.00**
10-163010-15R	07-01526	**$571.00**
10-163010-2R	07-01527	**$571.00**
10-163010-6R	07-01529	**$571.00**
10-163010-7R	07-01530	**$571.00**
10-163015-3R	07-01531	**$577.00**
10-163020-3R	07-01533	**$575.00**
10-163020-4R	07-01534	**$571.00**
10-163030-1R	07-02598	**$651.00**
10-163045-1R	07-01536	**$571.00**
10-163045-2R	07-01537	**$571.00**
10-163045-3R	07-01538	**$586.00**
10-163045-6R	07-01539	**$571.00**
10-163045-8R	07-01540	**$571.00**
10-163050-1R	07-01541	**$571.00**
10-163050-2R	07-01542	**$571.00**
10-163050-6R	07-01543	**$571.00**
10-163050-7R	07-01544	**$571.00**
10-163050-8R	07-01545	**$571.00**
10-163055-1R	07-01546	**$570.00**
10-163060-1R	07-01547	**$586.00**
10-163060-2R	07-01548	**$571.00**
10-349220-4R	07-01549	**$603.00**
10-349220-5R	07-01550	**$619.00**
10-349235-3R	07-01551	**$572.00**
10-349260-3R	07-01553	**$748.00**
10-349260-4R	07-01554	**$572.00**
10-349260-6DR	07-01555	**$317.95**
10-349260-6R	07-01556	**$599.00**
10-349260-7R	07-01557	**$603.00**
10-349270-7R	07-01558	**$572.00**
10-349285-1R	07-01559	**$748.00**
10-349285-5R	07-01560	**$572.00**
10-349285-7R	07-01561	**$748.00**
10-349290-17R	07-01562	**$722.00**
10-349290-1DR	07-01563	**$511.00**
10-349290-1R	07-01564	**$603.00**
10-349290-2DR	07-01565	**$317.95**
10-349290-2R	07-01566	**$748.00**
10-349290-3DR	07-01567	**$511.00**
10-3492920-3R	07-01568	**$572.00**
10-349290-4R	07-01569	**$748.00**
10-349290-9R	07-01570	**$779.00**
10-349300-4DR	07-01571	**$795.00**
10-349300-4R	07-01572	**$1,740.00**
10-349305-1DR	07-01573	**$317.95**
10-349305-1R	07-01574	**$579.00**
10-349305-2R	07-01575	**$572.00**
10-349305-3R	07-01576	**$748.00**
10-349305-4R	07-01577	**$572.00**
10-349310-10R	07-01578	**$748.00**
10-349310-11R	07-01579	**$748.00**
10-349310-14R	07-01580	**$723.00**
10-349310-1DR	07-01581	**$317.95**
10-349310-2R	07-01582	**$572.00**
10-349310-3R	07-01583	**$572.00**
10-349310-4DR	07-01584	**$511.00**
10-349310-4R	07-01585	**$724.00**
10-349310-5R	07-01586	**$572.00**
10-349310-8DR	07-01587	**$465.95**

Model	Part Number	Price
10-349310-8R	07-01588	**$572.00**
10-349320-4DR	07-01589	**$661.00**
10-349320-4R	07-01590	**$1,711.00**
10-349350-4R	07-01591	**$699.00**
10-349350-5R	07-01592	**$744.00**
10-349350-6R	07-01593	**$746.00**
10-349350-7R	07-01594	**$746.00**
10-349365-1R	07-01596	**$671.00**
10-349365-3R	07-01597	**$659.00**
10-349365-6R	07-01598	**$748.00**
10-349365-9R	07-02512	**$667.00**
10-349365-10R	07-01595	**$816.00**
10-349370-1R	07-01602	**$654.00**
10-349370-2R	07-01603	**$654.00**
10-349370-4DR	07-02974	**$715.00**
10-349370-5R	07-01606	**$584.00**
10-349370-6R	07-01607	**$654.00**
10-349420-1R	07-02516	**$745.00**
10-349420-2R	07-02517	**$689.00**
10-349460-1DR	07-01609	**$519.00**
10-349460-1R	07-02518	**$814.00**
10-349460-2R	07-02519	**$805.00**
10-349490-1DR	07-01610	**$520.00**
10-349490-1R	07-02520	**$745.00**
10-349490-2R	07-01611	**$816.00**
10-349490-3R	07-01612	**$748.00**
10-349500-1R	07-01613	**$1,970.00**
10-349510-1DR	07-01614	**$519.00**
10-349510-2R	07-01615	**$766.00**
10-349510-3R	07-01616	**$634.00**
10-349520-1DR	07-01617	**$795.00**
10-349520-1R	07-01618	**$1,970.00**
10-382555-10R DU	07-01619	**$1,325.00**
10-382555-11R DU	07-01620	**$1,325.00**
10-382555-12R DU	07-01621	**$1,325.00**
10-382555-13R DU	07-01622	**$1,325.00**
10-382555-14R DU	07-01623	**$1,348.00**
10-382555-151R D	07-01624	**$1,325.00**
10-382555-15R DU	07-01625	**$1,325.00**
10-382555-16R DU	07-01626	**$1,325.00**
10-382560-11R DU	07-01627	**$1,325.00**
10-382560-13R DU	07-01629	**$1,325.00**
10-382605-10R DU	07-01630	**$1,325.00**
10-382605-13R DU	07-01631	**$1,325.00**
10-382610-11R DU	07-01632	**$1,325.00**
10-382610-13R DU	07-01633	**$1,325.00**
10-382610-14R DU	07-01634	**$1,325.00**
10-382610-221R DU	07-01635	**$1,325.00**
10-382620-11R DU	07-01636	**$1,325.00**
10-382910-13R DU	07-01637	**$1,325.00**
10-382910-18R DU	07-01638	**$1,325.00**
10-382920-11R DU	07-01639	**$1,326.00**
10-51360-41R	07-01640	**$639.00**
10-51360-45R	07-01642	**$639.00**
10-51360-46R	07-01643	**$559.00**
10-51360-47R	07-01644	**$639.00**
10-51360-54R	07-01646	**$639.00**
10-500556-203R	07-19311	**$819.00**
10-51360-58R	07-01648	**$640.00**
.10-51365-32R	07-01650	**$639.00**
10-51365-33R	07-01651	**$639.00**
10-51365-34R	07-01652	**$690.00**
10-51365-35R	07-01653	**$639.00**
10-51365-40R	07-01654	**$621.00**
10-51365-43R	07-01655	**$735.00**
10-51365-44R	07-01656	**$639.00**
10-51365-45R	07-01657	**$639.00**
10-51365-46R	07-01658	**$639.00**
10-51365-48R	07-01659	**$691.00**
10-51365-57R	07-01660	**$664.00**
10-51365-9R	07-01661	**$639.00**
10-52350-22R	07-01664	**$639.00**
10-500516-4R	07-18140	**$676.00**
10-500556-3R	07-02548	**$659.00**
10-500556-101R	07-02546	**$679.00**
10-500556-103R	07-02547	**$659.00**

Model	Part Number	Price
10-600606-1R	07-02587	**$650.00**
10-600616-3R	07-02590	**$639.00**
10-600616-7R	07-02591	**$766.00**
10-600616-9R	10-05522	**$643.00**
10-600644-201R	10-06225	**$650.00**
10-600646-1R	07-02593	**$669.00**
10-600646-2R	07-02597	**$689.00**
10-600646-201R	07-02594	**$612.00**
10-600656-1R	07-02598	**$651.00**
10-682555-13R DU	07-01667	**$1,981.00**
10-682555-15R DU	07-01669	**$2,086.00**
10-682555-16R DU	07-02607	**$1,996.00**
10-682555-141R DU	07-02601	**$1,996.00**
10-682555-151R DU	07-02605	**$1,996.00**
10-682560-13R DU	07-01671	**$1,639.00**
10-682605-13R DU	07-01672	**$1,989.00**
10-682610-13R DU	07-01673	**$2,092.00**
10-682620-11R	07-01674	**$2,352.00**
10-682910-13R DU	07-01675	**$2,119.00**
10-682910-18R DU	07-01676	**$2,119.00**
10-79020-10R	10-79020-10	**$649.00**
10-79020-118R	07-01677	**$870.00**
10-79020-119R	07-01678	**$755.00**
10-79020-17R	07-01681	**$629.00**
10-79020-18R	07-01682	**$645.00**
10-79020-19R	07-01683	**$639.00**
10-682555-11R	07-02975	**$2,061.00**
10-682560-11R	07-02976	**$2,068.00**
10-163020-2R	08-15795	**$598.00**
10-163030-1R	08-15796	**$598.00**
10-349350-5R	08-15797	**$754.00**
10-500514-1R	08-15798	**$676.00**
10-500514-2R	08-15799	**$845.00**
10-500514-3R	08-15800	**$845.00**
10-500514-4R	08-15801	**$774.00**
10-500514-5R	08-15802	**$774.00**
10-500514-8R	08-15803	**$676.00**
10-500514-201R	08-15804	**$676.00**
10-500516-2R	08-15805	**$669.00**
10-500516-3R	08-15806	**$780.00**
10-500516-5R	08-15807	**$774.00**
10-500516-6R	08-15808	**$845.00**
10-500516-7R	08-15809	**$845.00**
10-500516-9R	08-15810	**$774.00**
10-500516-10R	08-15811	**$774.00**
10-500556-1R	08-15812	**$676.00**
10-500556-101R	08-15813	**$702.00**
10-500556-103R	08-15814	**$702.00**
10-500556-3R	08-15815	**$702.00**
10-500556-901R	08-15816	**$661.00**
10-52350-19R	08-15817	**$761.00**
10-52350-20R	08-15818	**$661.00**
10-52350-23R	08-15819	**$760.00**
10-600604-1R	08-15820	**$774.00**
10-600606-3R	08-15821	**$845.00**
10-600614-2R	08-15822	**$845.00**
10-600614-3R	08-15823	**$774.00**
10-600616-4R	08-15824	**$774.00**
10-600616-5R	08-15825	**$774.00**
10-600616-6R	08-15826	**$774.00**
10-600616-101R	08-15827	**$845.00**
10-600644-1R	08-15828	**$650.00**
10-600644-3R	08-15829	**$774.00**
10-600644-4R	08-15830	**$774.00**
10-600644-5R	08-15831	**$676.00**
10-600644-202R	08-15832	**$676.00**
10-600646-101R	08-15833	**$845.00**
10-600646-3R	08-15834	**$774.00**
10-600646-4R	08-15835	**$774.00**
10-600654-1R	08-15836	**$774.00**
10-600656-3R	08-15837	**$774.00**
10-79020-16R	08-15838	**$661.00**

Prices Subject to Change Without Notice

OVERHAULED BENDIX MAGNETOS

A Bendix magneto is a specific type of aircraft magneto manufactured by Teledyne Continental Motors. There are multiple models of Bendix magnetos, and they can be infinitely overhauled. As a result, the Bendix magneto is more often overhauled than bought new, allowing for efficient, cost-effective use.

Core charges apply to all Overhauled Magnetos.

Description	Part No.	Price
10-163010-10 O/H Bendix Mag	07-01949	**$800.00**
10-163020-4 O/H Bendix Mag	07-01950	**$800.00**
10-163060-1r O/H Bendix Mag	07-02392	**$749.00**
10-349290-9 O/H Bendix Mag	07-01955	**$801.00**
10-349220-4 O/H Bendix Mag	07-01939	**$799.00**
10-349220-5 O/H Bendix Mag	07-01935	**$799.00**
10-349260-6 O/H Bendix Mag	07-01936	**$749.00**
10-349260-7 O/H Bendix Mag	07-01938	**$749.00**
10-349285-1 O/H Bendix Mag	07-01975	**$799.00**
10-349290-17 O/H Bendix Mag	07-01952	**$824.00**
10-349290-1 O/H Bendix Mag	07-01933	**$793.00**
10-349290-2 O/H Bendix Mag	07-01953	**$799.00**
10-349290-3 O/H Bendix Mag	07-01976	**$799.00**
10-349290-4 O/H Bendix Mag	07-01954	**$799.00**
10-349293-1 O/H Bendix Mag	07-01977	**$675.00**
10-349300-4 O/H Bendix Mag	07-01946	**$1,424.00**
10-349305-1 O/H Bendix Mag	07-01941	**$749.00**
10-349305-3 O/H Bendix Mag	07-01978	**$799.00**
10-349310-14 O/H Bendix Mag	07-01979	**$749.00**
10-349310-1 O/H Bendix Mag	07-01932	**$749.00**
10-349310-1r O/H Bendix Mag	07-01932	**$749.00**
10-349310-2 O/H Bendix Mag	07-01980	**$749.00**
10-349310-4r O/H Bendix Mag	07-02402	**$749.00**
10-349310-8 O/H Bendix Mag	07-01981	**$749.00**
10-349320-4 O/H Bendix Mag	07-01982	**$1,326.00**
10-349350-4 O/H Bendix Mag	07-01931	**$749.00**
10-349350-5 O/H Bendix Mag	07-01930	**$750.00**
10-349350-7 O/H Bendix Mag	07-01989	**$749.00**
10-349365-10 O/H Bendix Mag	07-01957	**$749.00**
10-349365-1 O/H Bendix Mag	07-01990	**$749.00**
10-349365-3 O/H Bendix Mag	07-01942	**$749.00**
10-349365-6 O/H Bendix Mag	07-01958	**$749.00**
10-349370-1 O/H Bendix Mag	07-01960	**$749.00**
10-349370-4 O/H Bendix Mag	07-01934	**$749.00**
10-349420-1 O/H Bendix Mag	07-01961	**$935.00**
10-349420-2 O/H Bendix Mag	07-01962	**$935.00**
10-349460-1 O/H Bendix Mag	07-01963	**$884.00**
10-349460-2 O/H Bendix Mag	07-01991	**$883.00**
10-349490-2 O/H Bendix Mag	07-01964	**$934.00**
10-349520-1 O/H Bendix Mag	07-01992	**$1,456.00**
10-382555-14 O/H Bendix Mag	07-01947	**$1,954.00**
10-500514-1 O/H Bendix Mag	07-01973	**$749.00**
10-500516-2 O/H Bendix Mag	07-01974	**$749.00**
10-500516-3r O/H Bendix Mag	07-02418	**$749.00**
10-500556-101 O/H Bendix Mag	07-01993	**$877.00**
10-500556-103 O/H Bendix Mag	07-01927	**$877.00**
10-500556-1 O/H Bendix Mag	07-01929	**$749.00**
10-500556-203 O/H Bendix Mag	07-01983	**$749.00**
10-500556-3 O/H Bendix Mag	07-01924	**$727.00**
10-500556-901r O/H Bendix Mag	07-02424	**$883.00**
10-51306-26 O/H Bendix Mag	07-01984	**$675.00**
10-51360-27R O/H Bendix Mag	07-02549	**$749.00**
10-51360-28R O/H Bendix Mag	07-02550	**$749.00**
10-51360-29R O/H Bendix Mag	07-02551	**$749.00**
10-51360-37 O/H Bendix Mag	07-01943	**$750.00**
10-51360-41R O/H Bendix Mag	07-02553	**$675.00**
10-51360-45R O/H Bendix Mag	07-02556	**$749.00**
10-51360-47R O/H Bendix Mag	07-02557	**$749.00**
10-51360-48R O/H Bendix Mag	07-02560	**$675.00**
10-51360-54R O/H Bendix Mag	07-02561	**$749.00**
10-51360-55R O/H Bendix Mag	07-02562	**$749.00**
10-51360-58R O/H Bendix Mag	07-02563	**$749.00**
10-51365-32 O/H Bendix Mag	07-01965	**$749.00**
10-51365-33 O/H Bendix Mag	07-01966	**$749.00**
10-51365-34 O/H Bendix Mag	07-01967	**$749.00**
10-51365-43 O/H Bendix Mag	07-01968	**$749.00**
10-51365-46 O/H Bendix Mag	07-01969	**$749.00**
10-51365-47 O/H Bendix Mag	07-01944	**$749.00**
10-51365-57 O/H Bendix Mag	07-01970	**$749.00**

Description	Part No.	Price
10-51365-9R O/H Bendix Mag	07-02581	**$749.00**
10-51365-35R O/H Bendix Mag	07-02567	**$749.00**
10-51365-39R O/H Bendix Mag	07-02569	**$749.00**
10-51365-40R O/H Bendix Mag	07-02570	**$749.00**
10-51365-44R O/H Bendix Mag	07-02573	**$749.00**
10-51365-45R O/H Bendix Mag	07-02574	**$749.00**
10-51365-48R O/H Bendix Mag	07-02579	**$749.00**
10-52350-20R O/H Bendix Mag	07-02583	**$749.00**
10-52350-22R O/H Bendix Mag	07-02584	**$675.00**
10-52350-23R O/H Bendix Mag	07-02586	**$675.00**
10-600606-1 O/H Bendix Mag	07-01971	**$799.00**
10-600614-1r O/H Bendix Mag	07-02425	**$800.00**
10-600616-3R O/H Bendix Mag	07-02589	**$795.00**
10-600616-7R O/H Bendix Mag	07-02592	**$799.00**
10-600646-1 O/H Bendix Mag	07-01985	**$749.00**
10-600646-201 O/H Bendix Mag	07-01925	**$749.00**
10-600646-2 O/H Bendix Mag	07-01972	**$749.00**
10-600656-1 O/H Bendix Mag	07-01945	**$749.00**
10-682610-221r O/H Bendix Mag	07-02439	**$1,968.00**
10-79020-10 O/H Bendix Mag	07-01940	**$749.00**
10-79020-16 O/H Bendix Mag	07-01986	**$749.00**
10-79020-6 O/H Bendix Mag	07-01987	**$772.00**
10-349350-6 O/H Bendix Mag	07-01988	**$749.00**

OVERHAULED BENDIX DUAL MAGNETOS

Description	Part No.	Price
10-382555-11r O/H Bendix Dual Mag	07-02405	**$1,955.00**
10-382555-13r O/H Bendix Dual Mag	07-02406	**$1,954.00**
10-382555-141r O/H Bendix Dual Mag	07-02407	**$1,954.00**
10-382555-151r O/H Bendix Dual Mag	07-02409	**$1,954.00**
10-382555-15r O/H Bendix Dual Mag	07-02408	**$1,954.00**
10-682555-15r O/H Bendix Dual Mag	07-02429	**$1,968.00**
10-382555-16r O/H Bendix Dual Mag	07-02411	**$1,954.00**
10-382560-11r O/H Bendix Dual Mag	07-02412	**$1,954.00**
10-382560-13r O/H Bendix Dual Mag	07-02413	**$1,956.00**
10-382610-13r O/H Bendix Dual Mag	07-02414	**$1,954.00**
10-382610-221r O/H Bendix Dual Mag	07-02415	**$1,956.00**
10-382910-13r O/H Bendix Dual Mag	07-02416	**$1,954.00**
10-382910-18r O/H Bendix Dual Mag	07-02417	**$1,954.00**
10-682555-11r O/H Bendix Dual Mag	07-02426	**$1,955.00**
10-682555-13r O/H Bendix Dual Mag	07-02427	**$1,955.00**
10-682555-151r O/H Bendix Dual Mag	07-02430	**$1,968.00**
10-682555-16r O/H Bendix Dual Mag	07-02431	**$1,968.00**
10-682560-11r O/H Bendix Dual Mag	07-02432	**$1,968.00**
10-682560-13r O/H Bendix Dual Mag	07-02433	**$1,956.00**
10-682605-13r O/H Bendix Dual Mag	07-02434	**$1,968.00**
10-682610-11r O/H Bendix Dual Mag	07-02435	**$1,968.00**
10-682610-131r O/H Bendix Dual Mag	07-02438	**$1,968.00**
10-682610-13r O/H Bendix Dual Mag	07-02437	**$1,955.00**
10-682620-11r 8cyl O/H Bendix Dual Mag	07-02440	**$1,650.00**
10-682620-13r O/H Bendix Dual Mag	07-02441	**$1,159.00**
10-682910-18r O/H Bendix Dual Mag	07-02442	**$1,968.00**
10-682920-11r 8cyl O/H Bendix Dual Mag	07-02443	**$1,159.00**

BENDIX-SCINTILLA MAGNETOS

BENDIX MAGNETO ENGINE APPLICATIONS

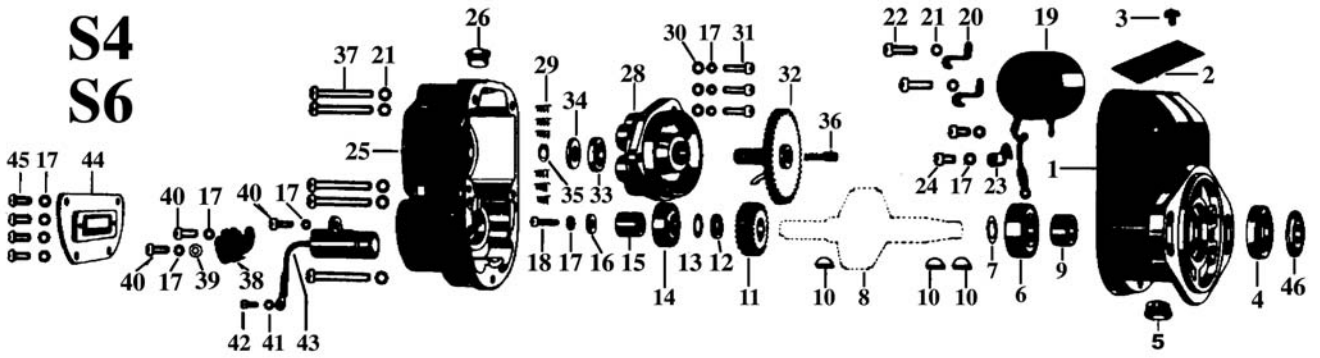
Engine Make	Engine Model	Magneto Type	Magneto Replacement	Units per Engine
Continental	A-65-8, A-75-8,	S4RN-20	10-51360-27 (Rt. Side)	1
	C-75-8, C-85-8 with original crankcase	S4RN-21	10-51360-28 (Lt. Side)	1
	A65-8, A-75-8, C-75-8, C-85-8 with current crank-case castings No. 6794 & No. 6795	S4RN-21	10-51360-28	2
	C-75-12F, C-85-8F,C-85-12F, C-90-12,	S4LN-21	10-51360-26	2
	C-115, C-125-2, C-145-2, C-145-4	S6LN-21	10-51365-39	2
	E-165-2, E-185-2 (above S/N 10111) E-185-3, E-185-9 (above S/N 5937) (above S/N 20922), E-225-4, E-225-8 (all), O-470-7 (above S/N 5937)	S6LN-20	10-51365-43	2
	GO-300A, GO-300B	S6RN-21	10-51365-35	2
	O-470-2, -4, -13, -A, -B, -E, -G, -J, -K, -L, -M, BGSO-526-A	S6RN-25	10-79020-8	2
	O-470-13A	S6LN-23	10-52350-20	2
	PE-150-2, -6 Packette	S6LN-23	10-52350-20	1
	FSO-526-A	S6RN-26	10-85290-2	2
Franklin	6A4-150-B3, 6A4-165-B3	S6RN-21		2
	6V4-178-B3, -B33, O-335-2, -3	S6RN-21	10-51365-48	2

*See Listing Below.

Engine Make	Engine Model	Magneto Type	Magneto Replacement	Units per Engine
Franklin	6V4-200-C32, -C33, O-335-2, -3, -5, -6	S6RN-23	10-52350-19	2
	6A4-200-C6	S6RN-23	10-52350-21	2
Lycoming	††O-145-B2, -B3, -C2, -C3, ††O-235-C,	S4LN-20	10-51360-29	1
	O-235-C1, -C1A,	S4LN-21	10-51360-30	1
	O-320-A1A, -A2A, -B1A, -B2A, O-340-A, -A1A,	S4LN-21	10-51360-30 (25° Lag) or	2
	-A2A, -B1A, B2A, O-360-A, -A1A, -A1B , -B1A, -B2A	S4LN-21	10-51360-25 (35° Lag)	2
	O-290-G (single ignition)	S4LN-21	10-51360-25	1
	GO-435-C2, -C2A, -C2B , -C2B2, -C2C, -C2E, GO-480, -B, -B1A6, -B1C,	S6LN-20	10-51365-31	1
	-B1D, -C1A, -C1D6, -C2E6, -F1A6, -F2A6, -F3A6, -F4A6	S6LN-21	10-51360-32	1
	O-435-19, -20, VO-435A, -A1A, -A1B, -A1C, -A1D, GO-480-C1B6, -D1A,	S6LN-20	10-51365-33	1
	-G1B6, GSO-480-A1A6, -A1C6, -B 1A6, -B1B6,-B1C6	S6LN-21	10-51365-34	1
	O-435-6, -6A, -23, -23A,	S6LN-22	10-52350-22	1
	-23B, -A1C (optional), O-480-1	S6LN-23	10-52350-23	1
	O-435-17, GO-435-C2, -C2A, -C2B, -C2D,	S6LN-20	10-51365-44	1
	GO-480-B1, -B1B, -C2C6, -F3B6, -F4B6	S6LN-21	10-51365-45	1
	O-540	S6LN-20	10-51365-46	1
		S6LN-21	10-51365-47	1

**New P/N 10-357584. ***New P/N 10-357586.

PARTS COMMON TO S4N & S6N MAGNETOS



Ref. No.	Part No.	Description	Price Ea.
1	10-50727Y	Housing - Magneto	---
2	10-400012	Plate - Mag Ident	$23.88
3	10-22067	Drive Screw - Ident Plate	---
4	10-357592	Oil Seal - Drive Shaft	$20.63
5	10-157134	Vent - Mag Housing	$4.38
6	10-81806	Bearing - Mag, Drive End	$35.90
7	2-161-1	Shim Washer - .0025"	$3.48
	2-161-2	Shim Washer - .004"	$8.04
	2-161-3	Shim Washer - .005"	$3.23
	2-161-4	Shim Washer - .008"	$3.08
	2-161-5	Shim Washer - .010"	$3.48
	2-161-6	Shim Washer - .012"	$3.23
	-------	(Drive End Bearing)	---
8	— —	Magnet - Rotating	---
9	10-25788	Bushing - Drive Shaft	$33.71
10	10-90788-5	Key - Woodruff	$1.79
11	10-157123Y	Gear-Distrib., Small (S4)	$88.58
11A	10-157120Y	Gear-Distrib., Small (S6)	$55.13
12	10-3503	Spacer-Brkr End Bearing	$2.09
13	2-199-1	Shim Washer - .002"	$2.39
	2-199-2	Shim Washer - .004"	$2.39

Ref. No.	Part No.	Description	Price Ea.
13	2-199-3	Shim Washer - .005"	$2.15
	2-199-4	Shim Washer - .008"	$2.63
	2-199-5	Shim Washer - .010"	$2.15
	2-199-6	Shim Washer - .012"	$2.15
	--------	(Breaker End Bearing)	-------
14	2-202	Bearing-Magnet, Brkr End	$55.75
15	10-88543-1	Cam - Breaker	$20.79
16	10-51354	Washer-Plain (Cam Screw)	$2.18
18	10-35936-10	Screw - Cam	$2.59
19	10-357164	Coil	$199.75
20	10-50765	Clamp - Coil Core	$7.50
21	--------	Washer - Lock	-------
22	10-35937-8	Screw - Coil Core Clamp	$2.68
23	10-5752	Clip - Primary Lead	$5.42
24	10-16479	Screw	— —
25	— —	Housing - Distributor	— —
26	10-157135	Plug - Distributor Housing	$4.38
27	— —	Bushing - Ground Terminal	— —
28	10-52949	Block - Distributor (S4)	$92.95
28A	10-52958	Block - Distributor (S6)	$128.85
29	10-50737	Spring-H.T. Cable Contact	$1.05

Ref. No.	Part No.	Description	Price Ea.
30	-------	Washer - Plain	-------
31	-------	Screw - Distributor Block	-------
32	10-357584	Gear-Distrib., Large (S4)**	$89.95
32A	10-357586	Gear-Distrib., Large (S6)***	$179.90
33	10-50752	Washer - Felt	$0.90
35	10-92815-37	Ring-Retain. (Distrib.,Gear)	$0.90
36	10-9595	Brush - Carbon	$7.45
37	10-157158	Screw	$3.35
38	— —	Breaker Assembly*	— —
39	10-14268	Washer - Plain	$2.05
40	10-157161	Screw	$2.59
41	-------	Washer - Lock	— —
42	-------	Screw - Lead to Breaker	-------
43	10-51676	Condenser	$28.90
44	— —	Cover - Breaker	— —
45	10-157161	Screw - Breaker Cover	$2.59
46	10-51678	Oil Slinger - Drive Shaft	$10.43

BENDIX

BREAKER ASSEMBLIES

Early S4, S6 Mags

P/N 07-06305 (10-357173) with spring
(current production) .... **$47.90 Ea.**
P/N 07-06306 (10-357174) without spring
(current production) .... **$45.75 Ea.**

All above breaker assemblies used on either Right or Left Magnetos.
Late S4/S6 Mags, S200 Mags*

P/N 10-382584 (LH) .... **$47.50 Ea.**
P/N 10-382585 (RH)... **$42.65 Ea.**

Used on many late Lyc. engines.
Note: Specify Bendix mag P/N e.g., 10-51369-29

BENDIX MAGNETO GREASE

#10-27165 - Factory recommended lubricant for bearings in Bendix magnetos.
1 Lb. Can ..... P/N 10-27165 .... **$79.83**
#10-391200 - For use on distributor block bushing. Provides proper shaft lubrication.
8 oz. can ...... P/N 10-391200 .. **$79.95**

REPLACEMENT COILS FOR CONTINENTAL ENGINES PER SERVICE BULLETIN NO. 637

TCM Ignition Systems has issued Service Bulletin No. 637 to retire from service certain older coils and rotating magnets. The Bulletin applies to many S-20, S-200, S-600, and S-1200 series magnetos as identified in this chart. Compliance with this Bulletin is required at the next 100 inspection, annual inspection, or progressive maintenance inspection, whichever comes first. Order by new coil part number.

Magneto Series	Old Coil P/N	Color	New Coil P/N	Color	Our Price
S-20	10-51303 10-76384 10-160886	Opaque amber to Dark Purple	10-357164	Bright Red to Dark Red	$199.75
S-20 S-200	10-163172 10-163209 10-160887	Opaque Amber to Dark Purple	10-357165-1	Bright Red to Dark Red	$267.92
S-1200	10-349271	Opaque Amber	10-391088-1	Blue to Olive Green to Black	$249.95

ALTERNATOR FILTER

Replacement part for existing alternator filters. Wire won't break at the case and its clamp is made from heavy gauge steel. Double the capacitance compared to OEM alternator filters. For stubborn alternator noise, this Alternator filter combined with the Eliminator (P/N 11-08055) can trap a wide frequency range of electronic noise. Both of these filters have been thoroughly tested under a DO 160D and are FAA/PMA approved. P/N 11-08060.............**$69.95**

MAGNETO FILTER

Eliminates ignition noise. Install in primary lead of magneto. Not FAA approved. P/N 07-03200 ... **$122.75 ea**

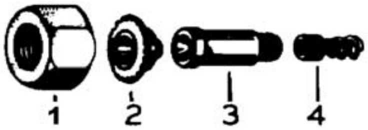
MAGNETO FILTER FAA APPROVED

Attenuates both low and high frequencies of noise generated from bendix magneto ignition systems. This filter has been used by avionics shops, OEM aircraft manufacturers, and FBO's, to attenuate and suppress pulsating noise generated by their aircraft's magneto systems. The magneto filter is FAA-PMA approved and is compatible with the bendix series S20, S21, S200, D3000, D4000 magneto. 1000 VDC working voltage, 5000VDC break down voltage. Capacitance: .05 uf-self healing technology. Heavy duty mounting clamp. Temp. range: -35°C to +80°C. Max. current: 20 amps
P/N 07-00713 .... **$79.95**

BOGERT AVIATION GROMMET STRETCHER TOOL

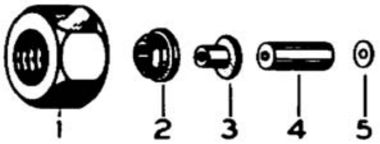
Using the Grommet Stretcher is 2-3x's faster when stretching grommets over fittings and plugs. Improves safety because grommets are continuous. Operating Instructions: 4 Simple Steps Saves time and frustration. Insert grommet over end of Grommet Stretching Tool. Squeeze handle to spread the grommet. Insert cable through grommet and release the squeeze on tool handle. Remove the grommet from tool by sliding grommet off the ends P/N 11-06946.......................... **$39.95**

GROUND TERMINAL KITS



For S-20 series mags. Kit No. 10-52306 (AN3105).....**$39.75**

Reg. No.	Part No.	No. Req.	Description
1	10-30299	1	NUT - Coupling (Ground Terminal)
2	10-56507	1	CROMMET Assy.(Ground Terminal)
3	10-3383	1	FERRULE - Inner (Ground Wire)
4	10-25725	1	SLEEVE - Insulating (Ground Wire)



For 20 series mags. Kit No. P/N 10-52305 ....**$88.50**

Reg. No.	Part No.	No. Req.	Description
1	10-37669	1	NUT - Coupling (Ground Terminal)
2	10-7030	1	FERRULE - Outer (Ground Wire)
3	10-7029	1	FERRULE - Inner (Ground Wire)
4	10-37668	1	SLEEVE - Insulating (Ground Wire)
5	2-155	1	WASHER - Ground Wire Contact

TCM/BENDIX IMPULSE COUPLINGS

Part No.	Price
10-40307	$463.70
10-40309	$463.70
10-400313	$463.70
10-40314	$463.70
10-40315	$463.70

$70.00 core charge applies

TCM/BENDIX CAM ASSEMBLIES

Part No.	Price
10-40166-6	$306.32
10-40167-4	$308.50
10-40167-6	$306.32
10-40167-10	$306.32

Core charge applies

EP

BOGERT AVIATION P-LEADS

BOGERT AVIATION SLICK STYLE P-LEADS

P-Leads are a critical part of the ignition system and their good condition is vital to safety and airworthiness. P-leads are often overlooked and seldom replaced because replacement p-leads are not available from the aircraft manufacturer and materials to fabricate new p-leads are not commonly available. Because most leads are shielded, mechanics do not have the materials, tooling or the experience to fabricate p-leads.

These p-leads are fabricated using proper materials, genuine terminal kits and additional strain reliefs. Each lead is inspected and tested. It is the responsibility of the installing agency to certify that the p-lead is airworthy and matches the requirements of the aircraft.

Bogert PN	Length	Description	PN	Price
21M-PL030-SS	30	P-lead 30" Slick Style	11-06869	**$32.75**
21M-PL036-SS	36	P-lead 36" Slick Style	11-06870	**$32.95**
21M-PL042-SS	42	P-lead 42" Slick Style	11-06871	**$34.70**
21M-PL048-SS	48	P-lead 48" Slick Style	11-06872	**$35.50**
21M-PL054-SS	54	P-lead 54" Slick Style	11-06873	**$36.50**
21M-PL060-SS	60	P-lead 60" Slick Style	11-06874	**$37.50**
21M-PL066-SS	66	P-lead 66" Slick Style	11-06875	**$38.80**
21M-PL072-SS	72	P-lead 72" Slick Style	11-06876	**$39.85**
21M-PL084-SS	84	P-lead 84" Slick Style	11-06877	**$42.85**
21M-PL096-SS	96	P-lead 96" Slick Style	11-06878	**$46.50**
21M-PL108-SS	108	P-lead 108" Slick Style	11-06879	**$49.65**
21M-PL120-SS	120	P-lead 120" Slick Style	11-06880	**$49.85**
21M-PL132-SS	132	P-lead 132" Slick Style	11-06881	**$57.75**
21M-PL144-SS	144	P-lead 144" Slick Style	11-06882	**$60.75**
21M-PL156-SS	156	P-lead 156" Slick Style	11-06883	**$64.75**
21M-PL168-SS	168	P-lead 168" Slick Style	11-06884	**$67.75**

BOGERT AVIATION BENDIX ROUND NUT P-LEADS

P-Leads are a critical part of the ignition system and their good condition is vital to safety and airworthiness. P-leads are often overlooked and seldom replaced because replacement p-leads are not available from the aircraft manufacturer and materials to fabricate new p-leads are not commonly available. Because most leads are shielded, mechanics do not have the materials, tooling or the experience to fabricate p-leads.

These p-leads are fabricated using proper materials, genuine terminal kits and additional strain reliefs. Each lead is inspected and tested. It is the responsibility of the installing agency to certify that the p-lead is airworthy and matches the requirements of the aircraft.

Bogert PN	Length	Description	PN	Price
21M-PL030-BR	30	P-lead 30" Bendix Round Nut	11-06891	**$69.75**
21M-PL036-BR	36	P-lead 36" Bendix Round Nut	11-06892	**$72.75**
21M-PL042-BR	42	P-lead 42" Bendix Round Nut	11-06893	**$73.75**
21M-PL048-BR	48	P-lead 48" Bendix Round Nut	11-06894	**$74.75**
21M-PL054-BR	54	P-lead 54" Bendix Round Nut	11-06895	**$76.85**
21M-PL060-BR	60	P-lead 60" Bendix Round Nut	11-06896	**$76.75**
21M-PL066-BR	66	P-lead 66" Bendix Round Nut	11-06897	**$78.75**
21M-PL072-BR	72	P-lead 72" Bendix Round Nut	11-06898	**$79.75**
21M-PL084-BR	84	P-lead 84" Bendix Round Nut	11-06899	**$82.75**
21M-PL096-BR	96	P-lead 96" Bendix Round Nut	11-06901	**$85.95**
21M-PL108-BR	108	P-lead 108" Bendix Round Nut	11-06902	**$89.80**
21M-PL120-BR	120	P-lead 120" Bendix Round Nut	11-06903	**$92.75**
21M-PL132-BR	132	P-lead 132" Bendix Round Nut	11-06904	**$99.75**
21M-PL144-BR	144	P-lead 144" Bendix Round Nut	11-06905	**$99.75**
21M-PL156-BR	156	P-lead 156" Bendix Round Nut	11-06906	**$103.75**
21M-PL168-BR	168	P-lead 168" Bendix Round Nut	11-06907	**$107.80**

BOGERT AVIATION BENDIX HEX NUT P-LEADS

P-Leads are a critical part of the ignition system and their good condition is vital to safety and airworthiness. P-leads are often overlooked and seldom replaced because replacement p-leads are not available from the aircraft manufacturer and materials to fabricate new p-leads are not commonly available. Because most leads are shielded, mechanics do not have the materials, tooling or the experience to fabricate p-leads.

These p-leads are fabricated using proper materials, genuine terminal kits and additional strain reliefs. Each lead is inspected and tested. It is the responsibility of the installing agency to certify that the p-lead is airworthy and matches the requirements of the aircraft.

Bogert PN	Length	Description	PN	Price
21M-PL030-BH	30	P-lead 30" Bendix Hex Nut	11-06914	**$86.75**
21M-PL036-BH	36	P-lead 36" Bendix Hex Nut	11-06915	**$89.75**
21M-PL042-BH	42	P-lead 42" Bendix Hex Nut	11-06916	**$89.75**
21M-PL048-BH	48	P-lead 48" Bendix Hex Nut	11-06917	**$92.50**
21M-PL054-BH	54	P-lead 54" Bendix Hex Nu	11-06918	**$93.75**
21M-PL060-BH	60	P-lead 60" Bendix Hex Nut	11-06919	**$93.75**
21M-PL066-BH	66	P-lead 66" Bendix Hex Nut	11-06920	**$94.90**
21M-PL072-BH	72	P-lead 72" Bendix Hex Nut	11-06921	**$96.85**
21M-PL084-BH	84	P-lead 84" Bendix Hex Nut	11-06922	**$99.75**
21M-PL096-BH	96	P-lead 96" Bendix Hex Nut	11-06923	**$103.75**
21M-PL108-BH	108	P-lead 108" Bendix Hex Nut	11-06924	**$107.75**
21M-PL120-BH	120	P-lead 120" Bendix Hex Nut	11-06925	**$110.75**
21M-PL132-BH	132	P-lead 132" Bendix Hex Nut	11-06926	**$114.80**
21M-PL144-BH	144	P-lead 144" Bendix Hex Nut	11-06927	**$117.75**
21M-PL156-BH	156	P-lead 156" Bendix Hex Nut	11-06928	**$122.75**
21M-PL168-BH	168	P-lead 168" Bendix Hex Nut	11-06929	**$124.75**

BOGERT AVIATION D2000 & D3000 P-LEADS BENDIX ROUND NUT

P-Leads are a critical part of the ignition system and their good condition is vital to safety and airworthiness. P-leads are often overlooked and seldom replaced because replacement p-leads are not available from the aircraft manufacturer and materials to fabricate new p-leads are not commonly available. Because most leads are shielded, mechanics do not have the materials, tooling or the experience to fabricate p-leads.

These p-leads are fabricated using proper materials, genuine terminal kits and additional strain reliefs. Each lead is inspected and tested. It is the responsibility of the installing agency to certify that the p-lead is airworthy and matches the requirements of the aircraft.

Bogert PN	Length	Description	PN	Price
21M-PL030-DBR	30	P-lead 30" Bendix Round Nut Short Style	11-13539	**$84.00**
21M-PL036-DBR	36	P-lead 36" Bendix Round Nut Short Style	11-13540	**$86.33**
21M-PL042-DBR	42	P-lead 42" Bendix Round Nut Short Style	11-13541	**$87.50**
21M-PL048-DBR	48	P-lead 48" Bendix Round Nut Short Style	11-13542	**$88.67**
21M-PL054-DBR	54	P-lead 54" Bendix Round Nut Short Style	11-13543	**$89.83**
21M-PL060-DBR	60	P-lead 60" Bendix Round Nut Short Style	11-13544	**$74.80**
21M-PL66-DBR	66	P-lead 66" Bendix Round Nut Short Style	11-13545	**$93.33**
21M-PL072-DBR	72	P-lead 72" Bendix Round Nut Short Style	11-13546	**$94.50**
21M-PL084-DBR	84	P-lead 84" Bendix Round Nut Short Style	11-13547	**$98.00**
21M-PL096-DBR	96	P-lead 96" Bendix Round Nut Short Style	11-13548	**$102.67**
21M-PL108-DBR	108	P-lead 108" Bendix Round Nut Short Style	11-13549	**$107.67**
21M-PL120-DBR	120	P-lead 120" Bendix Round Nut Short Style	11-13550	**$110.83**
21M-PL132-DBR	132	P-lead 132" Bendix Round Nut Short Style	11-13551	**$115.50**
21M-PL144-DBR	144	P-lead 144" Bendix Round Nut Short Style	11-13552	**$119.00**
21M-PL156-DBR	156	P-lead 156" Bendix Round Nut Short Style	11-13553	**$123.67**
21M-PL168-DBR	168	P-lead 168" Bendix Round Nut Short Style	11-13554	**$128.33**
21M-PL180-DBR	180	P-lead 180" Bendix Round Nut Short Style	11-13555	**$131.83**
21M-PL192-DBR	192	P-lead 192" Bendix Round Nut Short Style	11-13556	**$136.50**
21M-PL204-DBR	204	P-lead 204" Bendix Round Nut Short Style	11-13557	**$140.00**
21M-PL216-DBR	216	P-lead 216" Bendix Round Nut Short Style	11-13558	**$144.67**
21M-PL228-DBR	228	P-lead 228" Bendix Round Nut Short Style	11-13559	**$149.33**
21M-PL240-DBR	240	P-lead 240" Bendix Round Nut Short Style	11-13560	**$152.83**

BENDIX MAGNETO REPAIR KITS

FROM KELLY AEROSPACE

REPAIR KIT
1 - Contact Assy. Kit (3)
1 - Capacitor
2 - Bearings
1 - Oil Seal
1 - Oil Slinger
3 - Woodruff Keys
1 - Cotter Pin
1 - Cam Screw
1 - Felt Washer
1 - Felt Strip
1 - Snap Ring
1 - Carbon Brush

These magneto repair kits are designed to simplify the Bendix magneto overhaul process by providing all of the commonly needed overhaul parts in one convenient kit. The Repair Kits contain the parts needed for minor repair such as a 500 hour inspection, and the Deluxe Repair Kits contain the parts needed for major repair such as a magneto overhaul. These parts are highest quality direct replacement parts and are approved for installation and use on certificated aircraft. The Repair Kit and Deluxe Repair Kit for the Bendix -200, -201, and -202 series magnetos contain two sets of contact assembly kits. Some parts that may be need replacing during magneto overhaul are not included in these kits.

DELUXE REPAIR KIT
1 - Contact Assy. Kit (3)
1 - Coil Kit
1 - dist. Block Kit
1 - Gear Kit
1 - Capacitor
2 - Bearings
1 - Oil Seal
1 - Oil Slinger
3 - Woodruff Keys
1 - Cotter Pin
1 - Cam Screw

Bendix series	Magneto P/N	Magneto Type	Repair Kit P/N	Kit Price	Deluxe Repair Kit P/N	Kit Price
S-20 & S21	10-51360-1	S4R(L)N -20,21	07-00855	**$172.75**	07-00854	**$499.00**
	10-51360-3					
	10-51360-4					
	10-51360-6					
	10-51360-8					
	10-51360-10	S4R(L)N -20,21	07-00825	**$182.50**	07-00856	**$485.00**
	10-51360-11					
	10-51360-12					
	10-51360-25					
	10-51360-26	S4R(L)N -20,21	07-00855	**$172.75**	07-00854	**$499.00**
	10-51360-27					
	10-51360-28					
	10-51360-29	S4R(L)N -20,21	07-00825	**$182.50**	07-00856	**$485.00**
	10-51360-30					
	10-51360-31	S4R(L)N -20,21	07-00855	**$172.75**	07-00854	**$499.00**
	10-51360-33	S4R(L)N -20,21	07-00825	**$182.50**	07-00856	**$485.00**
	10-51360-37					
	10-51360-40					
	10-51360-41					
	10-51360-45	S4RN-21	07-00860	**$223.95**	07-00859	**$538.00**
	10-51360-46	S4R(L)N -20,21	07-00825	**$182.50**	07-00856	**$485.00**
	10-51360-47	S4RN-21	07-00860	**$223.95**	07-00859	**$538.00**
	10-51360-48	S4RN-21	07-00858	**$224.95**	07-00857	**$549.00**
	10-51360-54	S4R(L)N -20,21	07-00825	**$182.50**	07-00856	**$485.00**
	10-51360-55	S4R(L)N-20, 21	07-00860	**$223.95**	07-00859	**$538.00**
	10-51360-58					
	10-51360-1 up to S.N.238468	S6R(L)N-20, -21	07-00862	**$166.75**	07-00861	**$565.00**
	10-51365-1 up to S.N.238469	S6R(L)N	07-00864	**$182.50**	07-00863	**$584.00**
	10-51365-2	S6R(L)N -20,21	07-00862	**$166.75**	07-00861	**$565.00**
	10-51365-5					
	10-51365-7					
	10-51365-9	S6R(L)N -20,21	07-00864	**$182.50**	07-00863	**$584.00**
	10-51365-13	S6R(L)N -20,21	07-00862	**$166.75**	07-00861	**$565.00**
	10-51365-14	S6R(L)N -20,21	07-00864	**$182.50**	07-00863	**$584.00**
	10-51365-15					
	10-51365-16					
	10-51365-17					
	10-51365-20					
	10-51365-25					
	10-51365-26					
	10-51365-27					
	10-51365-28					
	10-51365-29					
	10-51365-30					
	10-51365-31					
	10-51365-32					
	10-51365-33					
	10-51365-34					
	10-51365-35					
	10-51365-39					
	10-51365-40	S6R(L)N -20,21	07-00862	**$166.75**	07-00861	**$565.00**
	10-51365-41					
	10-51365-42	S6R(L)N -20,21	07-00864	**$182.50**	07-00863	**$584.00**
	10-51365-43					
	10-51365-44					
	10-51365-45					
	10-51365-46					
	10-51365-47					
	10-51365-48	S6R(L)N -20,21	07-00862	**$166.75**	07-00861	**$565.00**
	10-51365-53	S6R(L)N -20,21	07-00864	**$182.50**	07-00863	**$584.00**
	10-51365-54					
	10-51365-57	S6LN -20,21	07-00868	**$244.95**	07-00867	**$651.00**

MAGNETO P-LEAD ADAPTER

This unique design of the P-lead adapter ensures proper spring pressure against the internal contact. It provides secure and stable alignment, and includes a post that prevents the timer leads from falling off. This adapter allows you to connect to the timer leads of all Bendix magnetos with an immediate and positive connection. One pair per package. 1 lbs (0.5Kg) shipping weight.

Magneto P-lead Adapter (Early S2, S4, S20)..................................... P/N 12-03522 .... **$35.95**
Magneto P-lead Adapter (S200, S600,later S2, S4, S20) .... P/N 12-03523 .... **$35.95**
Magneto P-lead Adapter (D2000, D3000 Series).............................. P/N 12-03524 .... **$35.95**
Magneto P-lead Adapter (Complete Set) .... P/N 12-03525 .... **$93.75**

FROM KELLY AEROSPACE

Bendix Series	Magneto P/N	Magneto Type	Repair Kit P/N	Kit Price	Deluxe Repair Kit P/N	Kit Price
S-24 & S25	10-79020-5	S6R(L)N -24,25	07-00864	**$182.50**	07-00863	**$584.00**
	10-79020-6					
	10-79020-8					
	10-79020-10					
	10-79020-11	S6LN -25	07-00868	**$244.95**	07-00867	**$651.00**
	10-79020-13	S6R(L)N -24, -25	07-00864	**$182.50**	07-00863	**$584.00**
	10-79020-14					
	10-79020-16					
	10-79020-17	S6LN -25	07-00868	**$244.95**	07-00867	**$651.00**
	10-79020-18					
	10-79020-118					
	10-79020-19	S6RN-25	07-00866	**$236.95**	07-00865	**$652.00**
	10-79020-119					
S-200	10-163005-1	S4R(L)N-200*	07-00844	**$263.95**	07-00843	**$583.00**
	10-163005-2					
	10-163005-3					
	10-163005-4					
	10-163005-5					
	10-163005-7					
	10-163005-10					
	10-163005-11					
	10-163015-1	S4R(L)N-201*	07-00844	**$263.95**	07-00843	**$583.00**
	10-163015-2					
	10-163015-3					
	10-163015-4					
	10-163045-1	S4LN -204	07-00757	**$218.95**	07-00847	**$556.00**
	10-163045-2	S4RN -204	07-00846	**$224.95**	07-00845	**$542.00**
	10-163045-3	S4LN -204	07-00757	**$218.95**	07-00847	**$556.00**
	10-163045-4	S4RN -204	07-00846	**$224.95**	07-00845	**$542.00**
	10-163045-6	S4LN -204	07-00757	**$218.95**	07-00847	**$556.00**
	10-163045-7	S4RN -204	07-00846	**$224.95**	07-00845	**$542.00**
	10-163055-1	S4RN -205	07-00846	**$224.95**	07-00845	**$542.00**
	10-163055-2	S4LN -205	07-00757	**$218.95**	07-00847	**$556.00**
	10-163010-1	S6R(L)N -200*	07-00849	**$265.95**	07-00848	**$655.00**
	10-163010-2					
	10-163010-3					
	10-163010-4					
	10-163010-5					
	10-163010-6					
	10-163010-7					
	10-163010-8					
	10-163010-9					
	10-163010-10					
	10-163010-11					
	10-163010-15					
	10-163010-17					
	10-163020-1	S6R(L)N-201*	07-00849	**$265.95**	07-00848	**$655.00**
	10-163020-2					
	10-163020-3					
	10-163020-4					
	10-163030-1	S6R(L)N-204	07-00849	**$265.95**	07-00848	**$655.00**
	10-163030-4					
	10-163050-1	S6LN-204	07-00853	**$218.95**	07-00852	**$687.00**
	10-163050-2					
	10-163050-3					
	10-163050-5					
	10-163050-6	S6RN -204	07-00851	**$224.95**	07-00850	**$622.00**
	10-163050-7					
	10-163050-8					
	10-163050-9	S6LN -204	07-00853	**$218.95**	07-00852	**$687.00**
	10-163060-1	S6RN -205	07-00851	**$224.95**	07-00850	**$622.00**
	10-163060-2	S6RN -205	07-00853	**$218.95**	07-00852	**$687.00**
	10-163070-1	S6RN -206	07-00853	**$218.95**	07-00852	**$687.00**
	10-163070-3					

***The Repair Kit and Deluxe Repair Kit for the Bendix -200, -201, and -202 Series Magnetos contain two sets of Contact Assembly Kits.**

REPLACEMENT PARTS FOR BENDIX MAGNETOS FROM KELLY AEROSPACE

P/N	Description	Price
07-06301	Bearing	**$20.55**
10-357078	Bushing	**$27.50**
10-357164	Coil	**$199.75**
10-357165-1	Coil	**$267.92**
10-35717-3	Breaker Points	**$59.90**
10-35717-4	Breaker Points	**$57.85**
07-06308	Capacitor	**$95.75**
10-52949	Distributor Block	**$92.95**
07-06311	Breaker Points	**$107.75**
10-382584	Breaker Points	**$47.50**
07-06313	Coil	**$231.95**
07-06314	Breaker Points	**$84.75**
07-06315	Breaker Points	**$93.75**
07-06316	Capacitor	**$95.80**
07-06317	Washer	**$5.35**
07-02453	Washer for Slick Mag	**$0.58**
07-06318	Coil	**$267.95**
07-06319	Capacitor	**$107.75**
07-06320	Gasket	**$67.75**
07-06321	Bushing	**$43.70**
10-391088-1	Coil	**$249.95**
07-06323	Gasket	**$44.50**
07-06324	Gasket	**$27.50**
07-06325	Distributor Block	**$106.75**
07-06326	Distributor Block	**$94.75**
07-06327	Vent	**$26.80**
10-50737	Spring	**$1.05**

P/N	Description	Price
07-06329	Felt Washer	**$0.90**
07-06330	Plug	**$9.60**
10-51676	Capacitor	**$28.90**
07-06332	Washer	**$0.60**
07-06333	Washer	**$1.89**
07-06334	Distributor Block	**$269.95**
07-06335	Distributor Block	**$298.95**
07-06336	Bearing	**$35.90**
07-06325	Ring	**$0.90**
07-06338	Ring	**$1.59**
07-06339	Bearing	**$55.75**
07-06341	Bushing	**$6.50**
10-160844	Brush	**$5.50**
07-06344	Bushing	**$85.75**
07-06345	Felt Strip	**$0.84**
07-06346	Packing	**$1.21**
07-06347	Capacitor	**$76.50**
07-06348	Washer	**$5.35**
07-06350	Breaker Points	**$47.00**
07-06351	Bearing	**$24.50**
08-12204	MF3A Ignition Filter Cap	**$142.75**
08-14664	ES10-382618 Nut	**$17.80**
08-14665	ES10-17050 Washer	**$16.10**
08-14666	ES10-35937 Screw	**$2.73**
08-14667	KA10-682024 Screw	**$6.99**
08-14668	ES10-400166-4	**$296.95**
08-14669	ES10-400166-5	**$296.95**

P/N	Description	Price
08-14670	ES10-400167-8	**$296.95**
08-15840	AM-3015 Screw	**$1.39**
08-15841	AM-3020 Screw	**$1.07**
08-15842	AM-3183-1 Nut	**$0.40**
08-15843	AM-3183-2 Washer	**$0.40**
08-15844	AB-92815-37 Snap Ring	**$1.09**
08-15845	ES10-163048 Bushing	**$76.75**
08-15846	ES10-349219 Wedge	**$10.99**
08-15847	ES10-349248 Slinger, Oil	**$27.50**
08-15848	ES10-349392-1 Flange	**$123.75**
08-15849	ES10-349392-2 Flange	**$176.75**
08-15850	ES10-349392-3 Flange	**$158.75**
08-15851	ES10-349392-4 Flange	**$170.75**
08-15852	ES10-349392-5 Flange	**$192.90**
08-15853	ES10-349392-6 Flange	**$171.75**
08-15854	ES10-349970 Breaker Points	**$55.75**
08-15855	ES10-349971 Breaker Points	**$53.75**
08-15856	ES10-35935-5 Screw	**$3.35**
08-15857	ES10-3793 Washer	**$5.35**
08-15862	ES10-382785 Connector Strip	**$23.80**
08-15863	ES10-382787 Bearing Retainer Plate	**$103.75**

P/N	Description	Price
08-15864	ES10-382931 Coil Retention Spring	**$22.50**
08-15867	ES10-391389 Gasket	**$34.50**
08-15907	ES10-4093 Washer	**$0.92**
08-15910	ES10-682014 Gear Assembly	**$169.75**
08-15911	ES10-682016 Gear Assy	**$169.75**
08-15912	ES10-685548 Washer	**$0.67**
08-15915	KA10-16092 Washer	**$1.84**
08-15916	KA10-35937-12 Screw	**$6.50**
08-15917	KA10-361639 Bushing	**$34.55**
08-15918	KA10-382568 Strip	**$2.50**
08-15919	109-2 3/4 Nut	**$15.75**
08-15920	113-2 5/8 Nut	**$14.70**
08-15921	148A Insulator	**$6.70**
08-15922	148B Brass Retainer	**$5.70**
08-15923	2391 Insulator & Retainer Assy	**$8.50**
08-15924	2392 Insulator	**$7.75**
08-15925	2446-2 3/4 Elbow Assy	**$25.50**
08-15926	2463-2 5/8 Elbow Assy	**$25.50**
08-15927	70043 Ferrule	**$13.50**
08-15928	70044 Ferrule	**$13.65**
08-15929	70046 Ferrule	**$9.50**

Prices Subject to Change Without Notice

SLICK MAGNETOS

NEW 4300 AND 6300 SERIES SLICK MAGNETOS

These new lightweight aircraft magnetos are being used by many new equipment manufacturers. Weigh only 3-3/4 lbs. compared to 6-1/4 lbs. for typical old style magnetos. All units carry a One Year warranty after delivery to the user. These new model magnetos are completely rebuildable. The old 4000/4100 magnetos may not be returned as an exchange unit for a new magneto of the same model. Most other Magnetos may be returned for core credit. Drive gears are not included. *When purchasing slick magnetos separately gaskets are not included.

IF NO CORE IS RETURNED, ADD $150 TO THE PRICE OF A NEW MAGNETO.

4300 SERIES

Magneto	ROT.	LAG	Weight	Type	Part No.	Price	Application
4309	LEFT	0	4	DD	08-01338	**$1,144.00**	Cont. IO-240-B
4310	LEFT	30	4	RB	08-01339	**$1,225.00**	Cont. IO-240-B
4333	RIGHT	25	4.8	IC	08-04333	**$1,370.00**	Cont. A-65-1, A-65-3, A-65-6, A-65-6J, A-65-7 A-65-8, A-65-8F, A-65-8FJ A-75-3, A-75-6, A-75-6J, A-75-8, A-75-8F, A-75-8FJ, A-75-8J, C-75-8, C-75-8F, C-75-8FH C-75-8FHJ, C-75-8FJ, C-75-8J, C-85-8, C-85-8F C-85-8FHJ, C-85-8FJ, C-85-8J, C-90-8F, C-90-8FJ
4345	LEFT	15	4	RB	08-01345	**$1,289.00**	Lyc. AEIO-360-A1A, AEIO-360-A1A, HIO-360-D1A, IO-360-A1A IO-360-A1C, IO-360-A2A, IO-360-A2C, IO-360-C1A IO-360-C1B, IO-360-D1A
4347	LEFT	25	4	RB	08-04347	**$1,177.00**	Lyc. AEIO-360-A1A, AEIO-360-A1A, AEIO-360-B1B, HO-360-C1A IO-320-B1D, IO-360-B1B, IO-360-B1D, IO-360-E1A O-235-C1B, O-235-F1B, O-320-A2C, O-320-A3C O-320-B1A , O-320-B1B, O-320-B2C, O-320-B2D O-320-B3C, O-320-D2B, O-320-D2B, O-320-E2B O-360-A1D, O-360-A2D, O-360-C1C, O-360-C2C
4372	LEFT	15	4.8	IC	08-43720	**$1,175.00**	Lyc. AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A1D, AEIO-360-A1D AEIO-360-A1E, AIO-360-A1A, AIO-360-A1B, AIO-360-B1B IO-360-A1B, IO-360-A1B6, IO-360-A1D, IO-360-A1D6 IO-360-A2B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6 IO-360-C1E6, IO-360-C1F, IO-360-K2A , O-235-K2A, O-235-K2B, O-235-K2C, O-235-L2A, O-235-M1, O-235-M2C O-235-N2A, O-235-N2C, O-235-P1, O-235-P2A, O-290-D2
4381	LEFT	5	4.8	IC	4281	**$1,147.00**	O-235-L2C, O-235-N2C

Abbreviations: DD (Direct Drive), IC (Impulse Coupled), RB (Retard Breaker), TD (Tachometer Drive), P (Pressurized)
Weight does not include harness cap or magneto drive gear, and are provided for reference only.

4300 SERIES

Model No.	Part No.	Price
4302	08-01337	**$1,119.00**
4309	08-01338	**$1,144.00**
4310	08-01339	**$1,225.00**
4316	4316	**$1,342.00**
4330	4330	**$1,222.00**
4333	4333	**$1,370.00**
4342	08-01343	**$1,182.00**
4344	08-01344	**$1,181.00**
4345	08-01345	**$1,289.00**
4347	4347	**$1,177.00**
4348	08-01346	**$1,396.00**
4353	08-01347	**$1,226.00**
4354	08-01348	**$1,396.00**
4370	4370	**$1,018.00**
4371	4371	**$1,164.00**
4372	4372	**$1,175.00**
4373	4373	**$1,164.00**
4374	08-01349	**$1,172.00**
4381	08-14585	**$1,147.00**
4392	08-01350	**$1,370.00**

6300 SERIES

Model No.	Part No.	Price
6309	6309	**$1,396.00**
6310	6310	**$1,075.00**
6313	6313	**$1,319.00**
6314	6314	**$1,350.00**
6320	6320	**$1,168.00**
6324	6324	**$1,258.00**
6350	6350	**$1,034.00**
6351	6351	**$1,168.00**
6355	6355	**$1,329.00**
6360	6360	**$1,217.00**
6361	6361	**$1,189.00**
6363	6363	**$1,296.00**
6364	6364	**$1,317.00**
6367	6367	**$1,352.00**
6371	6371	**$1,200.00**
6377	6377	**$1,396.00**
6379	6379	**$1,396.00**
6380	6380	**$1,396.00**
6382	6382	**$1,396.00**
6393	6393	**$1,198.00**
6399	6399	**$1,371.00**

CONTINENTAL MAGNETO DRIVE GEARS

Used on Continental Engines.

Engine Eligibility	Magneto Gear No.	Part No.	Price
O-200; C90-12, 14, 16; C85-12, 14, 15; C75-12, 15; IO-240-A, B	655845	36066	**$759.00**
O-200; C90-12, 14, 16; C85-12, 14, 15; C75-12, 15; IO-240-A, B	SA36066		
C-125, C-145, O-300	530603	07-02003	**$1,767.26**
O/IO-470, 520 Sancast	641728	07-02005	**$1,235.03**
520-550 Permold	641742	07-02006	**$1,725.78**
GTSIO-520	632797	07-02007	**$1,503.36**
GTSIO-520	632799	07-02008	**$1,956.23**

LYCOMING MAGNETO DRIVE GEARS

Used on Lycoming Engines.

Engine Eligibility	Magneto Gear No.	Part No.	Price
O-235, 320, 360 Impulse Magneto	61665	07-02010	**$473.80**
O-235,320, 360 Impulse Magneto	SL61665	07-02010	**$473.80**
O-235,320, 360 Direct Drive Magneto	68C19622	07-02011	**$364.96**
320, 360, “76”Series	LW-15659	07-02012	**$294.95**
O/IO-360 Dual Magneto	LW-13643	07-02013	**$1,673.35**
O/IO/LTIO/TIO-540	LW-19096	07-02014	**$1,435.65**
O/IO/LTIO/TIO-540	LW-19102*	07-02015	**$1,369.00**
O/IO/LTIO/TIO-540 Dual Magneto	LW-13899	07-02016	**$1,829.91**

NEW 6300 SERIES MAGNETOS

Magneto	ROT.	LAG	Weight	Type	Part No.	Price	Application
6310	RIGHT	30	4.9	IC	08-06310	**$1,075.00**	Cont. IO-470-A, IO-470-C, IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-H, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-T, IO-470-U, IO-470-V, IO-470-VO, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L IO-520-M, IO-520-MB, IO-520-N, IO-520-NB, IO-550-A IO-550-B, IO-550-C, IO-550-D, IO-550-F, IO-550-L O-470-A , O-470-B, O-470-B-C1, O-470-E, O-470-G, O-470-G-C1, O-470-H, O-470-J, O-470-K, O-470-K-C1 O-470-L, O-470-L-C1, O-470-M, O-470-M-C1, O-470-N O-470-P, O-470-R, O-470-S, O-470-T, O-470-U TSIO-520-A, TSIO-520-B, TSIO-520-BB, TSIO-520-C, TSIO-520-D TSIO-520-DB, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO-520-KB, TSIO-520-L TSIO-520-LB, TSIO-520-M, TSIO-520-N, TSIO-520-NB, TSIO-520-P TSIO-520-R, TSIO-520-T, TSIO-520-U, TSIO-520-UB, TSIO-520-VB TSIO-520-WB
6320	RIGHT	30	4.9	ICP	08-01353	**$1,168.00**	Cont. LTSIO-360-E, LTSIO-360-EB, LTSIO-360-KB, LTSIO-360-RB TSIO-520-A, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO-520-BB TSIO-520-C, TSIO-520-CE, TSIO-520-D, TSIO-520-DB, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO-520-KB, TSIO-520-L, TSIO-520-LB, TSIO-520-M TSIO-520-N, TSIO-520-NB, TSIO-520-P, TSIO-520-R, TSIO-520-T TSIO-520-U, TSIO-520-UB, TSIO-520-VB, TSIO-520-WB, TSIO-550-A, TSIO-550-B, TSIO-550-C, TSIO-550-E, TSIO-520-BE,
6350	LEFT	0	4	DD	08-06350	**$1,034.00**	Lyc. AEIO-540-D4A5, AEIO-540-D4B5, AEIO-540-L1B5, IO-540-A1A5, IO-540-B1A5, IO-540-B1C5, IO-540-C1B5, IO-540-C1C5, IO-540-C2C IO-540-C4B5, IO-540-C4C5, IO-540-D4A5, IO-540-D4C5, IO-540-E1A5 IO-540-E1B5, IO-540-G1A5, IO-540-G1B5, IO-540-G1C5, IO-540-G1E5 iO-540-J4A5IO-540-K1A5, IO-540-K1B5, IO-540-K1D5, IO-540-K1F5 IO-540-K1G5, IO-540-K1H5, IO-540-K1J5, IO-540-K1K5, IO-540-L1A5 IO-540-L1C5, IO-540-M1A5, IO-540-N1A5, IO-540-P1A5, IO-540-R1A5 IO-540-S1A5, O-540-A1A , O-540-A1B5, O-540-A1C5, O-540-A1D O-540-A1D5, O-540-A2B, O-540-A3D5, O-540-A4A5, O-540-A4B5 O-540-A4D5, O-540-B1A5, O-540-B2A5, O-540-D1A5, O-540-E4A5 O-540-E4B5, O-540-E4B5-wd, O-540-G1A5, O-540-G1A5-wd, O-540-G2A5, O-540-G2A5-wd, O-540-J3A5, IO-540-AA1A5
6351	LEFT	35	4.8	IC	08-06351	**$1,168.00**	Lyc. AEIO-540-D4B5, AEIO-540-L1B5, IO-540-AB1A5, IO-540-AC1A5 IO-540-G1C5, IO-540-G1D5, IO-540-G1F5, IO-540-K1A5, IO-540-K1B5 IO-540-K1C5, IO-540-K1E5, IO-540-K1G5, IO-540-K1H5, IO-540-K1K5 IO-540-L1A5, IO-540-L1C5, O-540-B2C5, O-540-E4C5, O-540-G1A5 O-540-G1A5-wd, O-540-G2A5, O-540-G2A5-wd, O-540-J3A5 IO-540-D4B5
6355	LEFT	45	4.8	IC	08-06355	**$1,329.00**	Lyc. IO-540-C2C, O-540-A1A, O-540-A1A5, O-540-A1B5, O-540-A1C5 O-540-A1D5, O-540-A2B, O-540-A4A5, O-540-A4B5, O-540-B2B5 O-540-B2B5-wd, O-540-B2C5-wd, O-540-B4B5, O-540-B4B5-wd, O-540-E4B5-wd, O-540-H2A5, O-540-E4B5
6363	LEFT	30	4	RBP	08-01356	**$1,296.00**	Lyc. TIO-540-A2B, TIO-540-A2C, TIO-540-J2B
6371	LEFT	0	4	TD	08-01358	**$1,200.00**	Lyc. AEIO-540-D4B5, IO-540-G1D5, IO-540-G1E5, IO-540-K1B5 O-540-E4C5, IO-540-S1A5
6393	LEFT	37	4	RBP	08-06393	**$1,198.00**	Lyc. AEIO-540-D4A5, AEIO-540-D4B5, AEIO-540-L1B5, IO-540-A1A5 IO-540-B1A5, IO-540-B1C5, IO-540-C1B5, IO-540-C1C5, IO-540-C4B5 iO-540-C4C5, IO-540-D4A5, IO-540-D4C5, IO-540-E1A5, IO-540-E1B5 IO-540-G1A5, IO-540-G1B5, IO-540-J4A5, IO-540-K1C5, IO-540-K1D5 IO-540-K1F5, IO-540-K1J5, IO-540-M1A5, IO-540-N1A5, IO-540-P1A5 IO-540-R1A5, IO-540-S1A5, O-540-A1B5, O-540-A1D, O-540-A1D5 O-540-A3D5, O-540-A4D5, O-540-B1A5, O-540-B2A5, O-540-D1A5 O-540-E4A5, O-540-E4C5, IO-540-AA1A5
6399	RIGHT	35	4.9	IC	08-01366	**$1,371.00**	Franklin 6A-350-C1, 6A-350-C1A, 6A-350-C2, 6A-350-C2A, 6A-350-D1 6A-350-D1A, 6A-350-D1B, 6A4-150-B3, 6A4-150-B31, 6A4-150-B4 6A4-165-B3, 6A4-165-B4, 6A4-165-B6

Abbreviations: DD (Direct Drive), IC (Impulse Coupled), RB (Retard Breaker), TD (Tachometer Drive), P (Pressurized)
Weight does not include harness cap or magneto drive gear, and are provided for reference only.

SLICK MAGNETOS

OVERHAULED SLICK MAGNETOS

NOTE: Please remove drive gears before returning Magneto cores for "Core Credit."
These lightweight aircraft magnetos are being used by many new equipment manufacturers. Weigh only 3-3/4 lbs. compared to 6-1/4 lbs. for typical old style magnetos.
In early 1988, Slick discontinued the sale of re-manufactured magnetos to offer new units only.
All units carry a six-month warranty after delivery to the user. 4000/4100/6200 series magnetos may not be returned as exchange units for a new magneto of the same model. Only 4300 and 6300 series Slick Magnetos may be returned for core credit.
Drive gears are not included. *When purchasing slick magneto separately gaskets are not included.
4300 series is a direct replacement for previous 4200 series Magnetos.

4300 SERIES

Model No.	Part No.	Price
4301R	08-13699	**$674.00**
4302R	08-13700	**$637.00**
4309R	08-13701	**$637.00**
4310R	08-13702	**$721.00**
4316R	08-13703	**$755.00**
4330R	08-13704	**$725.00**
4333R	08-13705	**$757.00**
4342R	08-13706	**$673.00**
4344R	08-13707	**$675.00**
4345R	08-13708	**$721.00**
4347R	08-13709	**$674.00**
4348R	08-13710	**$757.00**
4353R	08-13711	**$665.00**
4354R	08-13712	**$757.00**
4370R	08-13713	**$584.00**
4371R	08-13714	**$669.00**
4372R	08-13715	**$648.00**
4373R	08-13716	**$669.00**
4374R	05-15839	**$693.00**
4381R	08-13718	**$674.00**
4392R	08-13719	**$757.00**

6300 SERIES

Model No.	Part No.	Price
6309R	08-13720	**$757.00**
6310R	08-13721	**$659.00**
6313R	08-13722	**$757.00**
6320R	08-13724	**$674.00**
6324R	08-13725	**$721.00**
6331R	08-13726	**$757.00**
6340R	08-13727	**$673.00**
6350R	08-13728	**$597.00**
6351R	08-13729	**$669.00**
6355R	08-13730	**$765.00**
6360R	08-13731	**$649.00**
6361R	08-13732	**$1,250.00**
6362R	08-13733	**$757.00**
6363R	08-13734	**$721.00**
6364R	08-13735	**$724.00**
6365R	08-13736	**$757.00**
6367R	08-13737	**$757.00**
6377R	08-13739	**$757.00**
6380R	08-13743	**$757.00**
6382R	08-13744	**$757.00**
6390R	08-13745	**$673.00**
6391R	08-13746	**$759.00**
6393R	08-13747	**$669.00**
6394R	08-13748	**$673.00**
6399R	08-13749	**$757.00**

EP

CHAMPION REBUILT SLICK MAGNETO

4300 SERIES

Description	PN	Price
4301R Champion Rebuilt Slick Mag Imp Coupled	08-13927	**$854.00**
4309R Champion Rebuilt Slick Mag Non/Imp	08-13930	**$793.00**
4310R Champion Oh Slick Mag Non/Imp	08-13931	**$848.00**
4370R Champion Rebuilt Slick Mag Non Impulsed	08-13916	**$794.00**
4371R Champion Rebuilt Slick Mag Impulsed	08-13915	**$848.00**
4372R Champion Rebuilt Slick Mag Impulsed	08-13928	**$854.00**
4373R Champion Rebuilt Slick Mag Impulsed	08-13921	**$854.00**
4381R Champion Oh Slick Mag Impulsed	08-13918	**$854.00**

6300 SERIES

Description	PN	Price
6310R Champion Rebuilt Slick Mag Impulsed	08-13917	**$853.00**
6351R Champion Rebuilt Slick Mag Impulsed	08-13919	**$859.00**
6320R Champion Rebuilt Slick Mag Impulsed	08-13920	**$928.00**
6324R Champion Rebuilt Slick Mag Impulsed	08-13922	**$928.00**
6361R Champion Rebuilt Slick Mag Impulsed	08-13925	**$928.00**
6350R Champion Rebuilt Slick Mag Non/imp	08-13923	**$794.00**
6393R Champion Rebuilt Slick Mag Non/imp	08-13926	**$854.00**
6360R Champion Rebuilt Slick Mag Non/imp	08-13929	**$872.00**

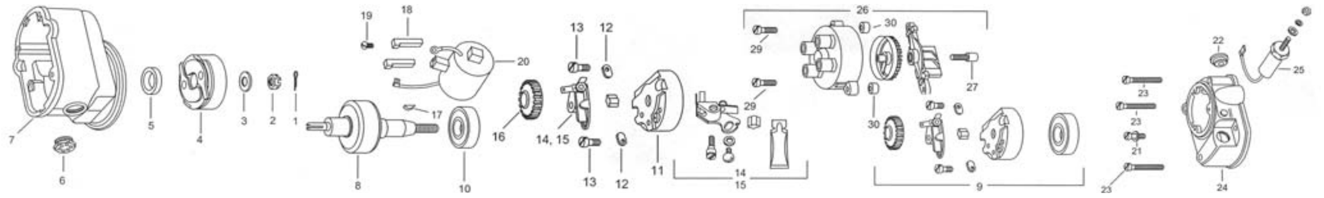
CHAMPION SLICK MAGNETO MAINTENANCE KITS

Inspection and maintenance are simpler and more convenient than ever before. Champion also incorporated mechanic-endorsed features to improve performance and service life. Lift-off housing –Internal timing is not disturbed during inspections. Simplified internal timing –Improved internal markings and unique Slick T-150 E-gap tool make timing easier and more accurate. Fully sealed bearings –Keeps contaminants out and grease in for smoother operation and less maintenance. Lower EMI Levels –Housing improves sealing and results in less radio noise. OEM Approved –Models are available for more than 225,000 engines –all compatible with existing Slick Ignition Harnesses.

Description	Where Kit Used	Mag Models Used	PN	Price
MK401 Kit	All IC or DD 4cyl. Magnetos	4301, 4302, 4303, 4309, 4316, 4330, 4331, 4333, 4370, 4371, 4372, 4373, 4374, 4381, 4392	08-14592	**$634.00**
MK402 Kit	All IC RB or TD 4cyl. Magnetos Excluding 4342 & 4344	4310, 4345, 4347, 4348, 4353, 4354	08-14593	**$635.00**
MK403 Kit	4342 & 4344 TD 4cyl. Magnetos	4342, 4344	08-14594	**$635.00**
MK601 Kit	All 6cyl. IC & DD Magnetos with small shaft	6310, 6313, 6314, 6320, 6324, 6362, 6364, 6367, 6377, 6379, 6380, 6382, 6399	08-14595	**$625.00**
MK602 Kit	All 6cyl. RB Magnetos with small shaft	6309	08-14596	**$636.00**
MK603 Kit	6390	6390	08-14597	**$635.00**
MK604 Kit	All 6cyl. IC & DD Magnetos with large shaft	6331, 6340, 6350, 6351, 6355, 6360, 6361	08-14632	**$635.00**
MK605 Kit	All 6cyl. RB & TD Magnetos with large shaft except 6390	6363, 6365, 6371, 6391, 6393, 6394	08-14633	**$635.00**

CHAMPION SLICK MAGNETO 500 HOUR INSPECTION KITS

Description	Mag Models Used	PN	Price
MK431	4301, 4302, 4303, 4309, 4316, 4330, 4331, 4333, 4370, 4371, 4372, 4373, 4374, 4381, 4392	08-15951	**$285.95**
MK432	4310, 4345, 4347, 4348, 4353, 4354	08-15952	**$342.00**
MK433	4342, 4344	08-15953	**$355.00**
MK631	6310, 6313, 6314, 6320, 6324, 6362, 6364, 6367, 6377, 6379, 6380, 6382, 6399	08-15954	**$285.95**
MK632	6309, 6363, 6365, 6371, 6391, 6393, 6394	08-15955	**$342.00**
MK633	6390	08-15956	**$355.00**



No.	Description	4301	4302	4303	4316	4330	4331	4342	4344	4345	Qty	Price/ea.
4300 SERVICE PARTS LIST												
1	Cotter pin	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	1	**$1.20**
2	Nut	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	1	**$7.50**
3	Washer	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	1	**$6.50**
4	Impulse Coupling Assy.	M3007	-	-	M3076	M3068	-	-	-	-	1	**$486.00**
5	Oil Seal	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	1	**$13.50**
6	Air Vent	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	1	**$6.80**
7	Frame	M3859	M3900	M3859	M3888	M3888	M3900	M3900	M3900	M3900	1	**$333.00**
8	Rotor	M3073	M3518	M3338	M3047	M3065	M3065	M3548	M3513	M3548	1	**$365.00**
9	Bearing Kit	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	K3301	K3301	K3301	1	**$281.95**
10	Ball Bearing	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	1	**$48.50**
12	Bearing Cap Clamp	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	2	**$1.95**
13	Screw	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	2	**$16.50**
14	Contact Point Kit-Primary	M3081	M3081	M3081	M3081	M3081	M3081	M3637	M3637	M3637	1	**---**
15	Contact Point Kit-Secondary	-	-	-	-	-	-	M3740	M3740	M3637	1	**$104.75**
16	Rotor Gear	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	1	**---**
17	Woodruff Key	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	1	**$1.25**
18	Coil Wedge	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	2	**$13.50**
19	Screw	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	1	**---**
20	Coil*(see below)	K3975	K3975	K3975	K3975	K3975	K3975	K3975	K3975	K3975	1	**$412.00**
21	Screw	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	1	**$1.57**
22	Air Vent w/Hood	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	1	**$24.60**
23	Screw	M3015	M3015	M3015	M3015	M3015	M3015	M3015	M3015	M3015	3	**$1.73**
24	Housing, Dist.	M3902	M3902	M3902	M3902	M3902	M3902	M3874	M3874	M3832	1	**$210.95**
25	Capacitor	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	1	**$145.75**
27	Carbon Brush	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	1	**$13.50**
--	Washer	M2532	M2532	M2532	M2532	M2532	M2532	M2532	M2532	M2532	1	**$0.64**
29	Screw	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	2	**$1.26**
30	Spacer	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	2	**$3.85**

No.	Description	4347	4348	4353	4354	4370	4371	4372	4373	4374	4381	Qty	Price/ea.
1	Cotter pin	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	1	**$1.20**
2	Nut	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	1	**$7.50**
3	Washer	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	1	**$6.50**
4	Impulse Coupling Assy.	-	-	-	M3529	-	M3163	M3100	M3529	M3689	M3007	1	**$486.00**
5	Oil Seal	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	1	**$13.50**
6	Air Vent	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	1	**$6.80**
7	Frame	M3900	M3900	M3900	M3859	M3900	M3859	M3859	M3859	M3888	M3859	1	**$333.00**
8	Rotor	M3548	M3513	M3548	M3158	M3548	M3158	M3158	M3158	M3065	M3158	1	**$365.00**
9	Bearing Kit	K3301	K3301	K3301	K3301	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	1	**$281.95**
10	Ball Bearing	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	1	**$48.50**
12	Bearing Cap Clamp	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	2	**$1.95**
13	Screw	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	2	**$16.50**
14	Contact Point Kit-Primary	M3637	M3637	M3637	M3637	M3081	M3081	M3081	M3081	M3081	M3081	1	**---**
15	Contact Point Kit-Secondary	M3637	M3637	M3637	M3637	-	-	-	-	-	-	1	**$104.75**
16	Rotor Gear	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	1	**---**
17	Woodruff Key	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	1	**$1.25**
18	Coil Wedge	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	2	**$13.50**
19	Screw	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	1	**---**
20	Coil*(see below)	K3975	K3975	K3975	K3975	K3975	K3975	K3975	K3975	K3975	K3975	1	**$412.00**
21	Screw	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	1	**$1.57**
22	Air Vent w/Hood	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	1	**$24.60**
23	Screw	M3015	M3015	M3015	M3015	M3015	M3015	M3015	M3015	M3015	M3015	3	**$1.73**
24	Housing, Dist.	M3832	M3832	M3832	M3832	M3902	M3902	M3902	M3902	M3902	M3902	1	**$210.95**
25	Capacitor	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	1	**$145.75**
27	Carbon Brush	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	1	**$13.50**
--	Washer	M2532	M2532	M2532	M2532	M2532	M2532	M2532	M2532	M2532	M2532	1	**$0.64**
29	Screw	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	2	**$1.26**
30	Spacer	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	2	**$3.85**

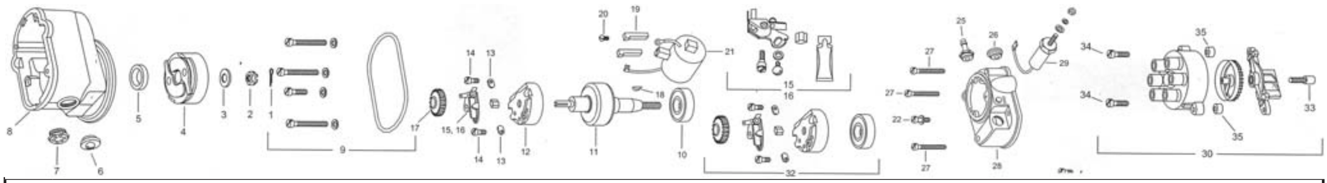
***Replaces M3525 Coil**

Slick Gasket M3426 ....P/N 08-05247 ....**$16.60**

Slick T153 Cam And Rotor Set ....P/N 12-01449 ....**$52.75**

EP

SLICK MAGNETO PARTS



No.	Description	6310	6314	6320	6324	6331	6340	6350	6351	6355	6360	Qty.	Price ea
	6300 SERVICE PARTS LIST												
1	Cotter pin	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	1	$1.20
2	Nut, Impulse Coupling	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	1	$7.50
3	Washer	M3172	M3172	M3172	M3172	-	-	-	-	-	-	1	$6.50
4	Impulse Coupling Ass.	M3050	M3089	M3050	M3089	M3800	-	-	M3333	M3635	-	1	$486.00
5	Oil Seal	M3062	M3062	M3062	M3062	M3331	M3331	M3331	M3331	M3331	M3331	1	$13.50
6	Pressure Vent Plug	-	-	M3179	M3179	M3179	M3179	-	-	-	M3179	1	$6.90
7	Air Vent	M1077	M1077	-	-	-	-	M1077	M1077	M1077	-	1	$6.80
8	Frame	M3837	M3847	M3837	M3847	M3888	M3900	M3900	M3859	M3859	M3900	1	$385.00
9	Gasket Pressure Kit	-	-	K3307	K3307	K3307	K3307	-	-	-	K3307	1	$87.75
10	Ball Bearing	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	1	$48.50
11	Rotor	M3047	M3093	M3047	M3093	M3792	M3801	M3117	M3327	M3416	M3117	1	$399.00
13	Bearing Cap Clamp	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	2	$1.95
14	Screw	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	2	$16.50
15	Contact Pt. Kit-Primary	M3081	M3081	M3081	M3081	M3081	M3081	M3081	M3081	M3081	M3081	1	---
16	Contact Pt. Kit-Secondary	-	-	-	-	-	-	-	-	-	-	1	$104.75
17	Rotor Gear	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	1	---
18	Woodruff Key	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	1	$1.25
19	Coil Wedge	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	2	$13.50
20	Screw	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	1	---
21	Coil	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	1	$412.00
22	Screw	M2555	M2555	-	-	-	-	M2555	M2555	M2555	-	1	$1.57
24	Screw	-	-	-	-	-	-	-	-	-	-	3	$1.57
25	Pressure Tube Fitting	-	-	M3180	M3180	M1280	M1280	-	-	-	M1280	1	$14.50
26	Air Vent with Hood	M3084	M3084	-	-	-	-	M3084	M3084	M3084	-	1	$24.60
27	Screw	M3015	M3015	-	-	-	-	M3015	M3015	M3015	-	3	$1.73
28	Housing, Distributor	M3902	M3902	M3902	M3902	M3902	M3902	M3902	M3902	M3902	M3902	1	$210.95
29	Capacitor	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	1	$145.75
31	Washer	M2532	M2532	-	-	-	-	M2532	M2532	M2532	-	1	$0.64
32	Bearing Kit	K3320	K3320	K3320	K3320	K3319	K3319	K3319	K3319	K3319	K3319	1	$224.95
33	Carbon Brush	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	1	$13.50
34	Screw	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	2	$1.26
35--	Spacer	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	2	$3.85

No.	Description	6361	6362	6363	6364	6365	6367	6371	6380	6382	6390	Qty.	Price ea
1	Cotter pin	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	1	$1.20
2	Nut, Impulse Coupling	M3019	M3019	M3019	M3492	M3019	M3492	M3019	M3019	M3019	M3019	1	$7.50
3	Washer	-	M3172	-	-	-	-	-	M3172	M3172	-	1	$6.50
4	Impulse Coupling Ass.	M3333	M3050	-	M3590	-	M3524	-	M3050	M3050	-	1	$486.00
5	Oil Seal	M3331	M3062	M3331	M3062	M3331	M3062	M3331	M3062	M3062	M3331	1	$13.50
6	Pressure Vent Plug	M3179	-	M3179	-	M3179	-	-	-	-	-	1	$6.90
7	Air Vent	-	M1077	-	M1077	-	M1077	M1077	M1968	M1968	M1077	1	$6.80
8	Frame	M3859	M3837	M3900	M3853	M3900	M3856	M3900	M3850	M3850	M3900	1	$385.00
9	Gasket Pressure Kit	K3307	-	K3307	-	K3307	-	-	-	-	-	1	$87.75
10	Ball Bearing	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	1	$48.50
11	Rotor	M3327	M3047	M3117	M3496	M3117	M3499	M3117	M3047	M3047	M3117	1	$399.00
13	Bearing Cap Clamp	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	2	$1.95
14	Screw	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	2	$16.50
15	Contact Pt. Kit-Primary	M3081	M3081	M3637	M3081	M3637	M3081	M3637	M3081	M3081	M3637	1	---
16	Contact Pt. Kit-Secondary	-	-	M3637	-	M3637	-	M3637	-	-	M3740	1	$104.75
17	Rotor Gear	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	1	---
18	Woodruff Key	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	1	$1.25
19	Coil Wedge	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	2	$13.50
20	Screw	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	1	---
21	Coil	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	1	$412.00
22	Screw	-	M2555	-	M2555	-	M2555	M2555	M2555	M2555	M2555	1	$1.57
24	Screw	-	M3125	-	-	-	-	-	-	M3125	-	3	$1.57
25	Pressure Tube Fitting	M1280	-	M1280	-	M1280	-	-	-	-	-	1	$14.50
26	Air Vent with Hood	-	M3084	-	M3084	-	M3084	M3084	M3084	M3084	M3084	1	$24.60
27	Screw	-	M3015	-	M3015	-	M3015	M3015	M3015	M3015	M3015	3	$1.73
28	Housing, Distributor	M3902	M3902	M3832	M3902	M3832	M3902	M3832	M3902	M3902	M3874	1	$210.95
29	Capacitor	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	1	$145.75
31	Washer	-	M2532	-	M2532	-	M2532	M2532	M2532	M2532	M2532	1	$0.64
32	Bearing Kit	K3319	K3320	K3302	K3320	K3302	K3320	K3302	K3320	K3320	K3302	1	$224.95
33	Carbon Brush	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	1	$13.50
34	Screw	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	2	$1.26
35--	Spacer	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	2	$3.85

SLICK IGNITION KITS

We offer complete Slick factory upgrade/conversion kits for virtually all general aviation aircraft. These kits include two factory new Slick magnetos, a complete Slick ignition harness, and conversion information. Add **$500.00** core charge to the kit prices which is refundable upon return of the two old magnetos to Aircraft Spruce. Specify aircraft and engine make and model when ordering.

Part Numbers listed are Gray. Other colors available are: Blue, Yellow, and Red.

Slick Kit Part No.	Engine Application 4 Cyl. Single Impulse 2 Mags & 1 Set Ignition Harness	Spark Plug Size	Gray Part No. & Plug No.	Price Add $500.00 Core Charge to all kits
K4516	Lycoming: 0-235-C1A, C1C, C2C, E1, E2B, F1, G2B, H2C, J2B 0-320-A1A, A2D, C1A, D1D, D2G, D2H, D3G, E1J, E2D, E2E, E2G, E3D10-320-B1B, E1B, E2B, A2B, AE10-320-E1B, E2B 0-360-A1NG, A2H, A4K, A4M, B1A, C1E, C1F, C2B, C2E, D1A 10-360-B1FG A10-360-A2B AE10-360-A2B, B1F6, B2F6, H1A	5/8" PLUGS INCLUDED	08-07737 (-40)	$2,392.00
			08-07734 (-37B4)	$2,396.00
K4315	Lycoming: 0-235-C1C, C2C, E2B, F1, G2B, J2B, N2C, 0-320-A1A, B1A, B2A, C1A, C2A, C2B, C2C, C3A, C3B, C3C, D1D, D2G, D2H, D3G, E1J, E2D, E2E, E2G, E3D, 0-320-B1B, E1B, A10-320-A2B, AE10-320-E1B, E2B 0-360-A1NG, A2H, A4K, B1A, C1E,C1F,C2B,C2E,D1A 10-360-B1F6 A10-360-A2B AE10-360-A2B, B1F6, B2F6, H1A	3/4" PLUGS INCLUDED	08-07716 (-38)	$2,449.00
			08-07718 (-40)	$2,595.00
Slick Kit Part No.	**Engine Application 4 Cyl. Single Impulse**	**Spark Plug Size**	**Gray Part No. & Plug No.**	**Price Add $500.00 Core Charge to all kits**
K4517	Lycoming: 0-235-C1, C2A, E2A, F2A; G1, G2A, J2A 0-290-D 0-320-A1B, A2A, A2B, A3A, A3B B1A, B1B, B2A, B2B, B3A, B3B, C2A, C2B, C2C, C3A, C3B, C3C, D1A, E1A, E2A, E2H 10-320-B1C, B2A, E1A, E2A, AE10-320-E1A, E2A 0-360-A1AWD, A2A, A1H, A3A, A4A, A4J, B2A, C1A, C1G, C2A, D2A 10-360-A1B, B4A, AE10-360-A1D, B4A	5/8" PLUGS INCLUDED	08-07739 (-38)	$2,397.00
			08-07741 (-40)	$2,392.00
K4317	Lycoming: 0-235-C1, C2A, C2B, E2A, F2A, F2B; G1, G2A, J2A 0-290-D 0-320-A1B, A2A, A2B, A3A, A3B, B2B, B3A, B3B, D1A, D1C, D1F, D2A, D2C, E1A, E2A, E2H, E3H 10-320-B1C, B2A, D1A, DIB, E1A, E2A A10-320-AIB, B1B, C1B AE10-320-DIB, D2B, E1A, E2A 0-360-A1A, A1AWD, A1FG, A1G, A1G6, A1H, A2A, A2F A2G, A3A, A4A, AHG, A4J, B2A, C1A, C2A, D2A 10-360-A1B, B4A, C1D6, F1A AE10-360-B4A	3/4" PLUGS INCLUDED	08-07740 (-40)	$3,214.00
			08-07722 (-38)	$2,595.00
K4520	Continental:C-75-12, 15 C-85-14, 15, C-90-12, 14, 16, 16F 0-200-A, B, C	5/8"	08-07746 (-40)	$3,158.00
K4335	Consists of 4333 AMAG + One Drive Gear	N/A	K4335	$1,525.00
K4334	A-65 All, A-75 All (Except -12,-15) C-85 All (Except-12, 14, & 15) Includes Drive Gears	5/8"	08-07732 (-40)	$2,699.00
Slick Kit Part No.	**Engine Application 6 Cyl. Single Impulse**	**Spark Plug Size**	**Gray Part No. & Plug No.**	**Price Add $500.00 Core Charge to all kits**
K6520	0-470, B-C1, C, E, G,	5/8"	08-07711 (-38)	$299.00
			08-07913 (-40)	$2,784.00
K6320	G-C1, H, J, K, K-C1, L, L-C1,M, M-C1, N, P, R, S, U 10-470-A, C, D, E, F, G, H, J, K, L, LO, M, N, P, R, S, T, U, V, VO10-520-A, B, BA, BB, C, CB, D, E, F, G, H, J, K, L, M, MB, N, NB	3/4" PLUGS INCLUDED	08-07872 (-36S)	$3,761.00
			08-07875 (-40)	$2,628.00

Add **$500.00** core charge to all kit prices (refundable with return of old Magnetos)   Request quotation for kits for unlisted engines.
* Plugs included.

The following information will aid you in selecting the correct magneto, upgrade kit, or ignition harness:

1. Engine Manufacturer: ___________________________________

2. Engine Model Number: ___________________________________

3. Engine Type (4 or 6 Cylinder): ___________________________________

4. Current Ignition System Manufacturer: _ ___________________________________

a) Number of impulse coupled magnetos (1 or 2): ___________________________________

Magneto Shaft Rotation (Right or Left) - See dataplate on current magneto ___________
Lag Angle ________________________

b) Number of Direct Drive (Non-Impulse) Magnetos ________________________

c) Number of Retard Breaker Magnetos ___
d) Are the magnetos pressurized ? ______

e) Spark plug size (5/8" or 3/4") __________

5. Do you want to upgrade from a single impulse to a dual impulse system? ______

If yes, an additional drive gear and/or adapter purchase may be required.

6. Are you upgrading from a 600 Series to a 6200 Series magneto? ___________________________________

If yes, you will need to purchase an M3154 Adapter or a magneto equipped with an M3154 Adapter to be able to reuse the existing harness. Alternately, purchase a new harness configured for 6200 Series magnetos.

7. Are you upgrading a complete engine form a TCM/ Bendix to a Slick system ? _______

If yes, purchase a complete Engine Upgrade Kit.

SLICK IGNITION HARNESSES BY CHAMPION

AIRCRAFT ENGINE APPLICATION CHART

Engine	Engine Models	Magneto	5/8" X 24 Spark Plug Termination	3/4" X 20 Spark Plug Termination
	Textron Lycoming			
O-235	C	S4-1200	M2365	M2235
O-235	C	S4-20, S4-200	M2364	M2360
O-235	C1,C1B,C2A,C2C,E1,H2C,J2A,J2B,K2C,L2A,L2C,M1,N2A,N2C,P1,P2A	S4-1200	M2365	M2235
O-235	C1,C1B,C2A,C2C,E1,H2C,J2A,J2B,K2C,L2A,L2C,M1,N2A,N2C,P1,P2A	S4-20, S4-200	M2364	M2360
O-235	C1,C1B,C2A,J2A,L2A,M1,N2A,P1,P2A	**4200, 4300**	**M4004**	**M2508**
O-235	C2C,E1,H2C,J2B,K2C,L2C,N2C	**4200, 4300**	**M4001**	**M2508**
O-290	D,D2	**4200, 4300**	**M4004**	**M2508**
O-290	D,D2,D2A,D2C	S4-20, S4-200	M2364	M2360
AEIO-320	D1B,D2B	**4200, 4300**	**M4005**	**M2508**
AEIO-320	D1B,D2B,E1A,E2B	S4-1200	M2365	M2235
AEIO-320	D1B,D2B,E1A,E2B	S4-20, S4-200	M2364	M2360
AEIO-320	E1A	**4200, 4300**	**M4004**	**M2508**
AEIO-320	E2B	**4200, 4300**	**M4001**	**M2508**
AIO-320	B1B	**4200, 4300**	**M4005**	**M2508**
AIO-320	B1B	S4-1200	M2365	M2235
AIO-320	B1B	S4-20, S4-200	M2364	M2360
IO-320	B1A,B1C,B1D,B2A,B2B,C1A,C1C,D1A,D1B,E1A,E2A,E2B,F1A	S4-1200	M2365	M2235
IO-320	B1A,B1C,B1D,B2A,B2B,C1A,D1A,D1B,E1A,E2A,E2B,F1A	S4-20, S4-200	M2364	M2360
IO-320	B1A,C1A,F1A	**4200, 4300**	**M4000**	**M2508**
IO-320	B1C,B2A,E1A,E2A	**4200, 4300**	**M4004**	**M2508**
IO-320	B1D	**4200, 4300**	**M4007**	**M2508**
IO-320	C1C	S4-20, S4-200	M2112	M2360
IO-320	D1A,D1B	**4200, 4300**	**M4005**	**M2508**
IO-320	E2B	**4200, 4300**	**M4001**	**M2508**
LIO-320	B1A,C1A	**4200, 4300**	**M4000**	**M2508**
LIO-320	B1A,C1A	S4-1200	M2365	M2235
LIO-320	B1A,C1A	S4-20, S4-200	M2112	M2360
O-320	A1A,A1B,A2A,A2C,A2D,A3A,A3B,B1A,B2A,B2B,B2D,B3A,B3B,B3C,C1A, C1B,C3A,C3B,D1A,D1B,D1F,D2A,D2B,D2J,D3G,E1A,E1B,E1C,E1F,E2A,E2C, E2D,E2E,E2F,E2G,E2H,E3D,E3H	S4-1200	M2365	M2235
O-320	A1A,A1B,A2A,A2D,A3A,A3B,B1A,B1B,B2A,B2B,B3A,B3B,C1A,C1B,C3A, C3B,D1A,D1B,D2A,D2B,D2J,D3G,E1A,E1B,E1C,E1F,E2A,E2C,E2D,E2E,E2F, E2G,E2H,E3D,E3H	S4-20, S4-200	M2364	M2360
O-320	A1A,A2D,C1A,C3A,D3G,E2D,E2E,E2G,E3D	**4200, 4300**	**M4001**	**M2508**
O-320	A1B,A2A,A2B,A2C,A3A,A3B,B1A,B1B,B2A,B2B,B2C,B2D,B3A,B3B,B3C, C1B,C3B,D1A,D2B,E1A,E2A,E2H	**4200, 4300**	**M4004**	**M2508**
O-320	A2B,A2C,B2C,B2D,B3C	S4-20, S4-200	M2402	M2360
O-320	D1F	S4-20, S4-200	M2363	M2360
O-320	D1F,D2A,E1C,E1F,E2F,E3H	**4200, 4300**	**M4005**	**M2508**
O-320	D2J	**4200, 4300**	**M4002**	**M2508**
O-320	E2C	**4200, 4300**	**M4007**	**M2508**
O-320	H2AD	DUAL		M2917
O-340	A1A	S4-20, S4-200	M2364	M2360
AEIO-360	A1A,A1B,A1B6,A1D,B1F,B1G6,B2F,B2F6,B4A,H1A	S4-1200	M2365	M2235
AEIO-360	A1A,A1B,A1B6,A1D,B1F,B1G6,B2F,B2F6,B4A,H1A	S4-20, S4-200	M2364	M2360
AEIO-360	A1A,A1D,B4A	**4200, 4300**	**M4004**	**M4029**
AEIO-360	A1B,A1B6	**4200, 4300**	**M4012**	**M4029**
AEIO-360	B1F,B2F	**4200, 4300**	**M4005**	**M2508**
AEIO-360	B1G6,B2F6,H1A	**4200, 4300**	**M4001**	**M2508**
AIO-360	A1A,A1B	**4200, 4300**		**M4029**
AIO-360	A1A,A1B	S4-20, S4-200	M2364	M2360
AIO-360	A1A,A1B,B1B	S4-1200	M2365	M2235
AIO-360	A1B,B1B	**4200, 4300**	**M4001**	**M4029**
AIO-360	B1B	S4-1200		M2492
HIO-360	A1A	S4-20, S4-200	M2817	M2859
HIO-360	B1A,C1A	S4-20, S4-200	M2795	M2856
HIO-360	D1A	**4200, 4300**	**M4007**	
HIO-360	D1A	S4-1200	M2655	
HIO-360	E1AD,E1BD,F1AD	DUAL		M2944
HO-360	A1A,B1A,B1BB	S4-20, S4-200	M2364	M2360
IO-360	A1A,A1B,A1B6,A1C,A1D6,A2A,A2B,B1A,B1B,B1D,B1E,B1F,B1F6,B2End, B2Ewd,B2F6,C1A,C1C6,C1D6,D1A,K2A	S4-20, S4-200	M2364	M2360
IO-360	A1A,A1B,A1C,A2A,A2B,B1A,B1B,B1D,B1F,B1F6,B2End,B2Ewd,B2F6, C1A,C1D6,K2A	S4-1200	M2365	M2235
IO-360	A1A,A2A,B1B,B1D,C1A,K2A	**4200, 4300**	**M4004**	**M2508**
IO-360	A1B,A1B6,A1C,A1D6,C1B,C1D6	**4200, 4300**	**M4012**	**M2508**
IO-360	A1B6	S4-1200	M2420	M2641
IO-360	A1B6D,J1A6D	DUAL		M2915
IO-360	A1D6	S4-1200	M2420	M2235
IO-360	A2B,B1E,B2End	**4200, 4300**	**M4006**	**M2508**
IO-360	A3B6D	DUAL		M2916
IO-360	B1E	S4-1200	M2423	M2235
IO-360	B1F,B2Ewd,B2F6	**4200, 4300**	**M4005**	**M2508**
IO-360	B1F6	**4200, 4300**	**M4001**	**M2508**
IO-360	C1B,D1A	S4-1200	M2365	M2616
IO-360	C1C,C1C6,C1E6	**4200, 4300**	**M4027**	**M2508**
IO-360	C1C,C1E6,C1F	S4-1200	M2423	M2616
IO-360	C1C,C1E6,C1F	S4-20, S4-200	M2658	M2661
IO-360	C1C6	S4-1200	M2423	
IO-360	C1F,D1A	**4200, 4300**	**M4007**	**M2508**
IVO-360	A1A	S4-20, S4-200	M2364	M4033
LIO-360	B1A,C1A	S4-20, S4-200	M2364	M2360
LIO-360	C1E6	**4200, 4300**	**M4027**	

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FOR A COMPLETE APPLICATION GUIDE AND PART NUMBERS PLEASE VISIT WWW.AIRCRAFTSPRUCE.COM

SLICKSTART

Improve your engine starting hot or cold Slick Start™ unleashes a firestorm of ignition energy to get your engine started and get you off the ground. SlickSTART is so effective, even sub-optimal fuel mixtures and seriously fouled plugs won't stop the capacitive discharge output from providing the ignition boost your engine needs for reliable starts every time. SlickSTART's sure starting power...

Delivers up to 340% more spark energy to your plugs. Overcomes poor engine priming. Reduces costly electrical stress to your battery and starter. Requires no maintenance. Is approved for use with Slick magnetos.

Plus, it's inexpensive and easy to install. Just add SlickSTART to your impulse coupled magnetos or replace your antiquated starting. The FAA-PMA approved SlickSTART™ magneto booster system integrates solid state electronics with conventional ignition hardware to deliver optimum spark energy for improved engine starting under all operating conditions.

SS1001 SlickStart for Slick .... P/N 08-01000 .... **$864.00**
SS1002 SlickStart for Bendix .... P/N 08-01005 .... **$864.00**

SLICK MAGNETO ASSEMBLY & TIMING KIT

T-100 Assembly and Timing Kit for field-repairable Slick 4300/6300 Series Magnetos.

P/N 07-00788 .... **$726.00**

T-200 SLICK® IGNITION HARNESS TOOL KIT

The Slick® Assembly Tool Kit is required to install all Slick Ignition Harness Leads on all magneto harness caps and spark plug termination ends. The complete kit includes: Pressing Tool, #72 Drill Bit, Pin Vise, Stripping Tool, Spring Assembly Tool, and Shield Stripper. Complete instructions for the use of this kit can be found in the Unison Industries L-1178 Service Manual.

P/N 12-00720 .... **$289.95**

M3064 SLICK CAPACITOR

Slick Capacitor (M3064).

P/N 08-05220 .... **$276.95**

SLICK IMPULSE COUPLING INSPECTION GAUGE

T-155 Impulse Coupling Inspection Gauge for Slick.

P/N 12-01450 .... **$63.95**

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SLICK MAGNETO REPLACEMENT PARTS BY KELLY AEROSPACE

Magneto replacement parts manufactured by Aero Accessories Inc. are made to specifications dictated by Federal Aviation Administration parts manufacturing approvals. They are highest quality, direct replacement parts, approved for installation and use on certified aircraft.

Note: Always refer to the parts and service manual of the original equipment manufacturer or to Aircraft Type Certificate Data Sheets or other FAA-approved data to determine eligibility of a part or component for use in any application.

*Kit Includes: A13081, A13081-1, -2, & AM3611

**Includes: AM3183, AM3182-1, & -2

Model No.	Description	Champion PN	Part No.	Price
A-13081-8	Contact Lube		07-01081	**$1.45**
AM-3183-1	Nut		07-02452	**$0.58**
AM-3183-2	Washer		07-02453	**$0.58**
AM3611	Cam		07-02456	**$0.84**
ES3307	Pressure Gasket Kit	K3307	07-19939	**$93.75**
ES1077	Air Vent	M1077	07-19931	**$6.50**
AM-2536	Woodruff Key	M2536	07-02446	**$1.02**
AM-2540	Cotter Pin	M2540	07-02447	**$0.65**
AM-3006	Ball Bearing	M3006	07-02448	**$41.90**
AM-3015	Screw	M3015	08-15840	**$1.39**
ES3018	Bearing Cap Clamp	M3018	07-19932	**$1.81**
ES3019	Nut	M3019	07-19933	**$7.80**
AM-3020	Screw	M3020	08-15841	**$1.07**
AM-3021	Screw	M3021	07-02449	**$0.93**
ES3040	Coil Wedge	M3040	07-19934	**$11.50**
AM-3062	Oil Seal	M3062	07-01089	**$10.85**

Model No.	Description	Champion PN	Part No.	Price
A-13081	Contact Assy Kit*	M3081	07-02445	**$52.95**
ES3084	Air Vent w/ Hood	M3084	07-19935	**$26.60**
ES3172	Washer	M3172	07-19936	**$5.65**
ES3179	Vent Plug	M3179	07-19937	**$7.50**
ES3180	Tube Fitting	M3180	07-19938	**$12.50**
AM-3183	Capacitor Assy**	M3183	07-02451	**$122.75**
AM-3215	Brush & Spring	M3215	07-02454	**$9.50**
ES3331	Oil Seal	M3331	07-19940	**$15.50**
AM-3485	Bearing & Cap Assy	M3485	07-02455	**$85.99**
ES3637	Contact Point	M3637	07-19941	**$118.75**
ES3740	Contact Point	M3740	07-19942	**$197.75**
ES3826	Spacer	M3826	07-19943	**$3.35**
ES3827	Rotor Gear	M3827	07-19945	**$11.85**
ES3828	Rotor Gear	M3828	07-19946	**$12.95**
A-13009	Coil	M3975	07-02444	**$319.00**
ES917	Impulse Spring	M917	07-19944	**$26.70**

BENDIX SERIES MAGNETO REPAIR KITS FROM KELLY AEROSPACE

These magneto repair kits and deluxe repair kits are designed to simplify the Bendix magneto overhaul process by providing all of the commonly needed overhaul parts in one convenient kit. The Repair Kits contain the parts needed for minor repair such as a 500 hour inspection, and the Deluxe Repair Kits contain the parts needed for major repair such as a magneto overhaul. These parts are highest quality direct replacement parts and are approved for installation and use on certificated aircraft. AB-200445SC-D and AB-200445SC-R kits contain two sets of contact assembly kits. Some parts that may be need replacing during magneto overhaul are not included in these kits.

4 CYLINDER KITS

Repair Kit Type	Tempest Kit P/N	Part No.	Price
MINOR	AB-484SC-R	10-04844	**$229.95**
MINOR	AB-485SC-R	10-04845	**$222.95**
MINOR	AB-200445SC-R	10-04849	**$266.95**
DELUXE	AB-484SC-D	10-04851	**$577.00**
DELUXE	AB-485SC-D	10-04852	**$570.00**
DELUXE	AB-200445SC-D	10-04855	**$576.00**

6 CYLINDER KITS

Repair Kit Type	Tempest Kit P/N	Part No.	Price
MINOR	AB-684SC-R	10-04847	**$225.95**
MINOR	AB-685SC-R	10-04848	**$219.85**
MINOR	AB-200645SC-R	10-04850	**$259.95**
DELUXE	AB-684SC-D	10-04853	**$616.00**
DELUXE	AB-685SC-D	10-04854	**$625.00**
DELUXE	AB-200645SC-D	10-04856	**$654.00**

SEE WWW.AIRCRAFTSPRUCE.COM FOR MAGNETO KIT ELIGIBILITY AND CONTENTS.

Prices Subject to Change Without Notice

KELLY AEROSPACE IGNITION HARNESSES

PLATED STEEL NUT: Steel nuts offer superior strength compared to aluminum nuts and reduce the potential for galling during installation FAA/PMA APPROVED FOR: - Franklin - Teledyne Continental Motors - Textron Lycoming .ABRASION AND HEAT RESISTANT: The abrasion resistant red polymer cover has been engineered specifically for the high-temperature environment of reciprocating engines. UNIQUE SPRING DESIGN: Hartzell ignition harnesses incorporate a negative-pitch spring design (the tip of the coil spring extends inward) allowing the coil spring tip to lie flat against the spark plug electrode, providing 360 contact. Ignition energy is maximized and flashover is reduced to a minimum. REPLACEABLE CONTACT SPRINGS: Replacement springs are available separately saving you time and money when a field repair is necessary. STRAIGHT AND CLOCKABLE 90 DEGREE STEEL ELBOW LEADS AVAILABLE: You have the option of using straight or clockable 90 elbow leads to make the installation neat and easy. PERFORMANCE - Plus: Using a tinned-copper, nickel plated braid shielding substantially reduces EMI and combined with a very flexible 19 strand conductor of stainless steel wire provides the ultimate in wire conductivity and ease of installation.

NOTE: PART NUMBERING SYSTEM and CROSS REFERENCE: The part numbering system is “user Friendly” for quickly cross-referencing to both Champion and Unison Harnesses. The “KA1”prefix is equivalent to the Champion “CH1” or the Unison“M” with the balance of the part number remaining the same. Add the suffix “E”to the part number to designate the 90 degree steel elbow terminations whenever ordering an “Elbow” harness. (EXAMPLE: KA12121E).

P/N	BEND	SLICK	4 CYL	6CYL	ELBOW	STRAIGHT	Blue P/N	Red P/N	Price
KA11480		X		X		X	08-13301	08-01095	**$492.00**
KA11480E		X		X	X		08-13302	08-01096	**$620.00**
KA1730	X			X		X	08-13409	08-01098	**$475.00**
KA11730E	X			X	X		08-13410	08-01099	**$603.00**
KA11740	X			X		X	08-13411	08-01101	**$476.00**
KA11740E	X			X	X		08-13412	08-01102	**$603.00**
KA11780		X	X			X	08-13303	08-01103	**$331.00**
KA11780E		X	X		X		08-13304	08-01104	**$428.00**
KA11878		X		X		X	08-13305	08-01105	**$491.00**
KA11878E		X		X	X		08-13306	08-01106	**$619.00**
KA11884		X		X		X	08-13307	08-01107	**$491.00**
KA11884E		X		X	X		08-13308	08-01108	**$619.00**
KA11950	X			X		X	08-13309	08-01109	**$475.00**
KA11950E	X			X	X		08-13310	08-01110	**$603.00**
KA11978	X			X		X	08-13419	08-01111	**$449.00**
KA11978E	X			X	X		08-13311	08-01112	**$577.00**
KA12007	X		X			X	08-13312	08-01113	**$340.00**
KA12007E	X		X		X		08-13413	08-01114	**$439.00**
KA12015	X			X		X	08-13313	08-01115	**$476.00**
KA12015E	X			X	X		08-13314	08-01116	**$603.00**
KA12037	X			X		X	08-13315	08-01117	**$436.00**
KA12037E	X			X	X		08-13316	08-01118	**$559.00**
KA12112	X		X			X	08-13317	08-01119	**$343.00**
KA12112E	X		X		X		08-13318	08-01120	**$440.00**
KA12120	X			X		X	08-13414	08-01121	**$491.00**
KA12120E	X			X	X		08-13319	08-01122	**$619.00**
KA12121	X			X		X	08-13320	08-01123	**$475.00**
KA12121E	X			X	X		08-13321	08-01124	**$603.00**
KA12130	X			X		X	08-13322	08-01125	**$456.00**
KA12130E	X			X	X		08-13323	08-01126	**$581.00**
KA12154	X			X		X	08-13324	08-01127	**$434.00**
KA12154E	X			X	X		08-13325	08-01128	**$559.00**
KA12157	X			X		X	08-13326	08-01129	**$440.00**
KA12157E	X			X	X		08-13327	08-01130	**$559.00**
KA12176	X			X		X	08-13328	08-01131	**$493.00**
KA12176E	X			X	X		08-13415	08-01132	**$619.00**
KA12216	X			X		X	08-13329	08-01133	**$491.00**
KA12216E	X			X	X		08-13330	08-01153	**$619.00**
KA12235	X		X			X	08-13331	08-01134	**$315.00**
KA12235E	X		X		X		08-13332	08-01135	**$411.00**
KA12244	X			X		X	08-13333	08-01155	**$491.00**
KA12244E	X			X	X		08-13334	08-01156	**$619.00**
KA12247	X			X		X	08-13335	08-01157	**$491.00**
KA12247E	X			X	X		08-13336	08-01158	**$619.00**
KA12259	X			X		X	08-13337	08-01159	**$491.00**
KA12259E	X			X	X		08-13460	08-01160	**$619.00**
KA12318		X		X		X	08-13339	08-01161	**$491.00**
KA12318E		X		X	X		08-13340	08-01162	**$619.00**
KA12339	X			X		X	08-13886	08-01163	**$490.00**
KA12339E	X			X	X		08-13341	08-01154	**$619.00**
KA12360	X		X			X	08-13342	08-01136	**$345.00**
KA12360E	X		X		X		08-13343	08-01137	**$440.00**
KA12364	X		X			X	08-13344	08-01138	**$331.00**
KA12364E	X		X		X		08-13345	08-01139	**$429.00**
KA12365	X		X			X	08-13407	08-01082	**$343.00**
KA12365E	X		X		X		08-13346	08-01141	**$440.00**
KA12381		X		X		X	08-13347	08-01142	**$434.00**
KA12381E		X		X	X		08-13348	08-01143	**$559.00**
KA12423	X		X			X	08-13349	08-01144	**$346.00**
KA12423E	X		X		X		08-13350	08-01164	**$440.00**
KA12447	X			X		X	08-13351	08-01165	**$491.00**
KA12447E	X			X	X		08-13455	08-12199	**$619.00**
KA12474	X			X		X	08-13352	08-01167	**$491.00**
KA12474E	X			X	X		08-13354	08-01168	**$619.00**
KA12508		X	X			X	08-13416	08-01145	**$332.00**
KA12508E		X	X		X		08-13355	08-01169	**$428.00**
KA12616	X		X			X	08-13356	08-01170	**$343.00**

P/N	BEND	SLICK	4 CYL	6CYL	ELBOW	STRAIGHT	Blue P/N	Red P/N	Price
KA12616E	X		X		X		08-13357	08-01171	**$440.00**
KA12628	X			X		X	08-13358	08-01172	**$491.00**
KA12628E	X			X	X		08-13359	08-01173	**$619.00**
KA12709	X			X		X	08-13360	08-01174	**$453.00**
KA12709E	X			X	X		08-13362	08-01175	**$581.00**
KA12712	X			X		X	08-13363	08-01176	**$491.00**
KA12712E	X			X	X		08-13364	08-01177	**$619.00**
KA12742	X			X		X	08-13365	08-01178	**$491.00**
KA12745	X			X		X	08-13366	08-01180	**$491.00**
KA12745E	X			X	X		08-13367	08-01181	**$619.00**
KA12778		X		X		X	08-13368	08-01146	**$475.00**
KA12778E		X		X	X		08-13369	08-01182	**$603.00**
KA12790	X			X		X	08-13370	08-01183	**$491.00**
KA12790E	X			X	X		08-13371	08-01184	**$619.00**
KA12828		X		X		X	08-13372	08-01185	**$491.00**
KA12828E		X		X	X		08-13373	08-01186	**$619.00**
KA12851	X			X		X	08-13374	08-01188	**$491.00**
KA12851E	X			X	X		08-13375	08-01189	**$619.00**
KA12854	X			X		X	08-13376	08-01190	**$483.00**
KA12854E	X			X	X		08-13377	08-01191	**$619.00**
KA12865	X			X		X	08-13378	08-01192	**$491.00**
KA12865E	X			X	X		08-13379	08-01193	**$619.00**
KA12890	X			X		X	08-13380	08-01194	**$491.00**
KA12890E	X			X	X		08-13381	08-01195	**$619.00**
KA12932		X		X		X	08-13382	08-01147	**$475.00**
KA12932E		X		X	X		08-13383	08-01196	**$603.00**
KA14001		X	X			X	08-13384	08-01148	**$336.00**
KA14001E		X	X		X		08-13408	08-01086	**$428.00**
KA14002		X	X			X	08-13385	08-01150	**$336.00**
KA14002E		X	X		X		08-13458	08-12203	**$428.00**
KA14004		X	X			X	08-13386	08-01152	**$334.00**
KA14004E		X	X		X		08-13387	08-01197	**$428.00**
KA14033	X		X			X	08-13389	08-01198	**$320.00**
KA14033E	X		X		X		08-13390	08-01199	**$408.00**
KA17001	X			X		X	08-13391	08-01202	**$490.00**
KA17001E	X			X	X		08-13393	08-01203	**$618.00**
KA17002	X			X		X	08-13394	08-01204	**$490.00**
KA17002E	X			X	X		08-13395	08-01205	**$618.00**
KA17005	X		X			X	08-13396	08-01206	**$332.00**
KA17005E	X		X		X		08-13397	08-01207	**$428.00**
KA17006	X		X			X	08-13398	08-01208	**$332.00**
KA17006E	X		X		X		08-13399	08-01209	**$428.00**
KA17007	X		X			X	08-13400	08-01210	**$332.00**
KA17007E	X		X		X		08-13401	08-01211	**$428.00**
KA17008	X		X			X	08-13402	08-01212	**$332.00**
KA17008E	X		X		X		08-13403	08-01213	**$428.00**
KA17011		X	X			X	08-13404	08-01214	**$332.00**
KA17011E		X	X		X		08-13405	08-01215	**$428.00**
KA12365	X		X			X	08-13407	08-01082	**$343.00**
KA11730	X			X		X	08-13409	08-01098	**$475.00**
KA11730E	X			X	X		08-13410	08-01099	**$603.00**
KA11740	X			X		X	08-13411	08-01101	**$476.00**
KA11740E	X			X	X		08-13412	08-01102	**$603.00**
KA12007E	X		X		X		08-13413	08-01114	**$439.00**
KA12120	X		X			X	08-13414	08-01121	**$491.00**
KA12176E	X			X	X		08-13415	08-01132	**$619.00**
KA12508		X	X			X	08-13416	08-01145	**$332.00**
KA17012	X		X			X	08-13417	08-01216	**$784.00**
KA17012E	X		X		X		08-13418	08-01217	**$976.00**
KA11978	--	--	--	X	--	--	08-13419	08-01111	**$449.00**
KA12045E	--	X	X	--	X	--	08-13420	08-12156	**$440.00**
KA12351	X	--	X	--	--	X	08-13421	08-12158	**$336.00**
KA12351E	X	--	X	--	X	--	08-13422	08-12159	**$440.00**
KA12402	X	--	X	--	--	X	08-13423	08-12160	**$305.00**

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KELLY AEROSPACE INDIVIDUAL HARNESS LEADS

The leads are made with our industry leading Kelly Aerospace red ignition harness wire cut 72 inches in length with available 5/8 or 3/4 spark plug termination. Also shipping with the leads is an attachment kit with magneto attachment hardware for both Slick and Bendix/CMI magnetos. Trim to fit.

Kelly E100-72 Trim To Fit Lead 72” 3/4 Lead Assy W/ Elbow .... P/N 08-13222 .... **$119.75**
Kelly E200-72 Trim To Fit 72” 5/8 Lead Assy W/ Elbow .... P/N 08-13223 .... **$107.75**
Kelly S100-72 72” 3/4 Lead Assy Straight .... P/N 08-13224 .... **$97.80**
Kelly S200-72 72” 5/8 Lead Assy Straight .... P/N 08-13225 .... **$97.80**

E-MAG ELECTRONIC IGNITION

Note: New installation requires a harness, and possibly a gear, depending on the application (See Accessories). Verify requirements before ordering.

Of all the E-MAG innovations, the self-powering capability of the "P" Model is the most significant. It solves the largest single issue faced by all electronic ignitions - their need for an uninterruptible power supply.

Power back-up strategies that a) compromise ignition effectiveness, b) solve only half the problem, or c) require additional maintenance are less than ideal. Next-Generation ignitions need a better solution. So what does a next-generation electrical back-up need to do?

Above all, it has to be reliable. When it's needed, it has to work - period. It should operate for as long as needed. Whether it's the last 10 minutes of a Sunday pleasure flight, or you're crossing the Atlantic. It should be maintenance-free. Benign neglect should not prevent it from working. On the rare occasion it's needed, it should automatically engage without operator intervention. A simple and convenient pre-flight check should confirm it's working properly. This P model ignition has an internal three phase brushless alternator that produce enough power to sustain the ignition when the engine is turning 800 rpm, or more. If the aircraft buss voltage goes off-line, the ignition has an internal alternator. With this arrangement, dual electronic ignitions can be run "clean". No back-up batteries and no back-up magnetos.

The P Model Built-In Alternator adds no (zero) mechanical contact/wear parts to the system. Adds only a few ounces of weight. Requires no additional hardware to install. Will operate as long as the engine is turning

E-MAG Aircraft Harness

Description	Part No.	Price
"P" Model (P-MAG) Ignition - Lycoming (and like) engines.	07-01292	$1,395.00
E-Mag P Model Ignition with Alternator 4C Continental - Ignition compatible with 4 cylinder Continental O-200 Engines.	07-01311	$1,245.00
E-Mag Gear Adapter Kit C 200	07-01805	$135.00
E-Mag Spark Plug Adapters w/o Gaskets (4 pk) Short Reach	08-06753	$85.00
E-Mag Spark Plug Adapters w/ Gaskets (4 pk) Short Reach	08-06753-1	$63.75
E-Mag Spark Plug Adapters w/ Gaskets (4 pk) Long Reach	08-07608	$85.00

E-MAG IGNITION KITS

Auto style custom fit kits. Include low-resistance spiral wound lead wire, end fittings, and tool. Auto style harness with terminals and boots installed on both ends. Same wire used in their custom trim-to-fit kit.

E-MAG Auto Harness - 4 Lead Kit without adapter	07-02716	$80.00
E-MAG Spark plug adapters - 4 pk.	08-06753	$85.00

E-MAG IGNITION DRIVE GEARS

Lycoming 68C19622	07-02011	$364.96
Superior SL68C19622	08-11837	$290.95

ELECTROAIR IGNITION SYSTEMS

EIS-2 KIT

EIS-3 KIT

The Electroair EIS fires the spark plugs directly from the coils, not through a distributor. This is accomplished by using multiple coils, each with two spark terminals. The coil terminals are connected to the spark plugs, allowing one cylinder to fire on compression while its companion cylinder fires simultaneously on exhaust. Open spark gaps in the rotor and cap are eliminated, making wear and moisture problems a thing of the past.

The EIS Controller includes dual digital microprocessors using patented spark algorithms, which takes the electrical signal from the crankshaft (or mag timing housing) sensor, identifies top-dead center and then keeps track of the remaining rotation. The EIS determines engine speed and computes the spark advance using the settings pre-set at the factory for the engine as a base-line. Settings from the factory are preset for the engine's certified placarded timing. Additionally, the EIS receives engine manifold pressure information and advances the ignition to compensate for altitude and throttle position.

EIS-1 KIT	Part No.	Price
4-cylinder Electronic Ignition System comes with: Coil Pack, Controller, Mag Timing Housing, MAP Sensor, spark plug wires, instruction manual. Specify engine make and model	08-05953	$1,924.00
EIS-2-MT	**Part No.**	**Price**
6-cylinder Electronic Ignition System with MTH (Mag Time Housing) comes with: Coil Pack, Controller, Crankshaft Timing Wheel, MAP Sensor, spark plug wires, instruction manual. Specify engine make and model	08-14584	$2,735.00
EIS-61000-5M	**Part No.**	**Price**
The EIS-61000 Electronic Ignition Kit is a fully STC'd kit for Lycoming 540 series, non-turbo'd, series engines, installed on single engine aircraft.	08-15630	$5,500.00
EIS-61000-5M	**Part No.**	**Price**
The EA-12000 replaces the impulse-coupled magneto found on most Lycoming engines. This unit provides the EA-7000 Controller with the engine position and RPM information needed to drive the electronic ignition system. Installation is very easy - much like a magneto.	08-15631	$1,695.00
EA-10000	**Part No.**	**Price**
The EA-10000 replaces the magneto found on most Continenta9l engines. This unit provides the EA-7000 Controller with the engine position and RPM information needed to drive the electronic ignition system. Installation is very easy - much like a magneto. Engine to TDC on #1 cylinder, lock-pin in the MTH and then drop it in the mag hole. Tighten the hold down clamps and pull the lock pin.	08-16208	$1,695.00
EIS-2-CSTW	**Part No.**	**Price**
EIS-2-CSTW 6-cylinder Electronic Ignition System Trigger Wheel Kit. Used with dual magneto Lycomings and Continental models.	08-16213	$2,045.00

KITS ABOVE ARE 14V. FOR 24V KITS ADD -24 TO THE PART NUMBERS LISTED.

ELECTROAIR IGNITION SWITCHES WITH PANELS

The EA-13000 is approved ignition switch panel to control both the Electroair electronic ignition system (EIS) and the magneto.

Horizontal ..... P/N 08-14693 ..... **$269.00**
Vertical.......... P/N 08-14694 ..... **$269.00**

Prices Subject to Change Without Notice

ELECTROAIR – IGNITION HARNESSES

ELECTROAIR 4 CYLINDER ELECTRONIC IGNITION KITS

The EIS-41000 Series Electronic Ignition Kit is a fully STC'd kit for most Lycoming 4cyl engines. Replacing one magneto with the EIS-41000 will typically improve fuel economy on average by 10-15% (many operators have reported consistent fuel savings of 1gph or greater). Additionally, there will be an improvement in horsepower, smoother engine operation, and improved high altitude performance. Used on either 12V or 24V systems. Kit includes: all the required parts to replace the direct drive magneto (typically, the right hand mag), or the Impulse Coupled Magneto (typically left handed) in most 4cyl Lycoming engines. (Please refer to the FAA approved model list to verify the system can be installed on your engine - Note: engines are being added regularly).

Description	Part No.	Price
EIS-41000 Direct Drive (non-impulse coupled)	08-07272	$3,570.00
EIS-41000IC Impulse Coupled	08-07505	$3,570.00
EIS-41000T Twin Engine Aircraft; Lycoming 4cyl Engines. Standard Rotation, Direct Drive (non-impulse coupled) Magneto Replacement	08-07667	$3,570.00
EIS-41000TIC Twin Engine Aircraft; Lycoming 4cyl Engines. Standard Rotation Impulse Coupled Magneto Replacement	08-07668	$3,570.00
EIS-41000TLH Twin Engine Aircraft; Lycoming 4cyl Engines. Counter-Rotating, Direct Drive (non-impulse coupled) Magneto Replacement	08-07669	$3,570.00
EIS-41000TLHIC Twin Engine Aircraft; Lycoming 4cyl Engines. Counter Rotating, Impulse Coupled Magneto Replacement	08-07670	$3,570.00
EIS-61000-T5M 6 Cylinder EIS Lycoming Normal ASP MAG Timing Housing	08-16206	$4,950.00

ELECTROAIR 6 CYLINDER ELECTRONIC IGNITION KITS

The EIS-61000 Electronic Ignition Kit is a fully STC'd kit for Continental 470 & 520, non-turbo'd, series engines, installed on single engine aircraft. Replacing one magneto with the EIS-61000 will typically improve fuel economy. This kit can be used on either 12V or 24V systems. Kit includes: all the required parts to replace one magneto.

Description	Part No.	Price
EIS 61000-1C Electroair Cont. 6 Cyl.	08-12237	$4,795.00
EIS 6100-T1C Electroair Cont. 6 Cyl.	08-13155	$4,795.00
EIS-61000-1M for Continental 360, 470, 520, &550 non turbo series engines on single engine aircraft.	08-13696	$5,500.00
EIS-61000-T1M for Continental 360, 470, 520, &550 non turbo series engines on twin engine aircraft.	08-13759	$5,500.00
EIS-61000-5C for Lycoming 540 non turbo series engines on single engine aircraft.	08-13760	$4,795.00
EIS-61000-T5C for Lycoming 540 non turbo series engines on twin engine aircraft.	08-13761	$4,795.00
Note: The following are replacement units for the EIS systems.		
EA-6000/EA-6000TP the brains of the Electroair Electronic Ignition System. This replacement unit if for 6cyl engines. This unit can be used in either a 12V or 24V application.	08-13157	$2,525.00
EA-11000 Crank Shaft Trigger Wheel kit mounts on the bare spot of the crank shaft just behind the propeller flange. NOTE: Minimum clearance of 0.650" between the front of the engine case and propeller studs is REQUIRED. Please check this dimension before starting installation ordering the kit.	08-13158	$995.00
EA-8000 is the 6cyl Coil Pack used in the EIS-61000 Electronic Ignition System. This unit can be used in either a 12V or 24V application.	08-13159	$755.00
The EA-3000 replaces the direct drive magneto found on most 4cyl Lycoming engines. This unit provides the EA-1000 Controller with the engine position and RPM information needed to drive the electronic ignition system.	08-07671	$1,610.00

ELECTROAIR SPARK PLUGS

Electroair partnered with Tempest to produce its new HE spark plug line. The HE plugs are STC'd and PMA'd for use with the Electroair electronic ignition systems. The plugs are approved for all aircraft, and installations approved for use with the Electroair electronic ignition systems. Electroair's "HE" plug line include a massive electrode with extended reach outer electrodes has a gap of 0.032. This optimal gap accommodates the high energy output of 70,000 volts delivered by the Electroair system.

EAREM37HE........................P/N 08-07714 ....**$40.25**
EAREM38HE........................P/N 08-07715 ....**$102.50**
EARHB32E...........................P/N 08-16212 ....**$40.25**

SEE WWW.AIRCRAFTSPRUCE.COM FOR ELECTROAIR TIMING KITS AND PARTS.

LIGHTWEIGHT HIGH TEMPERATURE SHIELDED IGNITION HARNESSES

MFG. BY ACS PRODUCTS CO.

New production ignition harnesses at remarkably low prices. Late type 5MM wire constructed of 16 strands of tightly braided copper wire impregnated with scuff resistant white silicone. All strands must fracture before a complete open circuit type failure occurs thus extending lead life. Lead flexibility is retained from -65° to 400° F. Moisture and cleaning solvent penetration is eliminated by the impregnated silicone coating. This extremely flexible wire lends itself to sharp bends thereby eliminating the need for old style harness elbows. No soldered joints in the grounding circuit. Custom made for most 4 cylinder and 6 cylinder engines using Bendix or Eisemann magnetos and 4 cylinder engines using Slick magnetos. Cable outlet plates are not furnished for Bendix and Eisemann mags as these are already installed on the magnetos in service. They must be purchased separately for new magneto installations. Harnesses for Slick magnetos are furnished with the backplates installed. Standard harnesses for the Bendix S4/S6 mags are fitted with a male nut which screws into the threaded outlet plate on the back of the mag. Harnesses for old style Bendix SF4 and SF6 magnetos are fitted with female nuts.

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HARNESSES FOR BENDIX AND EISEMANN MAGNETOS

All 4-Cylinder Harnesses (8 wires).. **$171.00**
All 6-Cylinder Harnesses (12 wires).. **$230.95**
(Not Available for Bendix S1200 Magnetos)
Replacement Leads to 48" (Specify Length).................. **Call For Quote**
(Bendix & Eisemann only)

HARNESSES FOR SLICK MAGNETOS

For 4000, 4200 & 4300 Series Mags (4 Cyl.) Only................... **$177.00**

All Harnesses Furnished with Cable Ties and Clamps
For plugs with 5/8-24 barrel size only.

BENDIX MAGNETOS

Engine/Magneto	Part No.
Cont. A-65/S4	12301-02
C-85/S4	12301-05
C-90/S4	12301-06
0-200/S4	12301-05
LYC. 0-100/S4	12301-21
0-235/S4	12301-21
0-290/S4	12301-21
0-320/S4	12301-22
0-360/S4	12301-22
Cont. A-65/SF4	12302-02
A-75/SF4	12302-03
Lyc. 0-100/SF4	12302-20
0-235/SF4	12302-20
0-290/SF4	12302-20
Cont. E-185/S6	12305-10
E-225/S6	12305-11
O-470/S6	12305-13
C-145/S6	12305-09
O-300/S6	12305-09
Lyc. 0-540/S6	12305-22
IO-540/S6	12305-22
Franklin165/S6	12305-41
Cont.C-125-SF6	12307-08
Lyc.0-435/SF6	12307-23

SLICK MAGNETOS

Engine/Magneto	Part No.
VW (M2266) *	12304-32
Lyc 0-235 (M2363)	12304-33
0-290 (M2363)	12304-33
0-320,0-360 (M2363)	12304-33
Cont. 0-200 (1780)	12304-31
C-75 (1780)	12304-31
C-85 (1780)	12304-31
C-90 (1780)	12304-31

EISEMANN MAGNETOS

Engine/Magneto	Part No.
Cont A65/LA-4	12303-04
A75/LA-4	12303-04
C-85/LA-4	12303-07
E-185/LA-6	12306-12
Franklin 150/LA-6	12306-40
Continental C90/LA4	12303-08
Continental E-185/LA6	12306-12
Franklin 150/LA6	12306-40

***This harness only comes with 4-leads.**
ACS Products ignition harnesses can be used on experimental aircraft or on certified aircraft with field approval (FAA Form 337). If FAA/PMA harness is mandatory or if for use with 3/4" spark plugs, use Slick Bendix, Aero-Lite or Champion harnesses.

FLYEFII DUAL SYSTEM32 ENGINE MANAGEMENT SYSTEM

The FlyEFii System32 Engine Management System Hardware is the first electronic engine management system ever designed specifically for the needs of experimental aviation. System32 is a state of the art, high speed, fully redundant system that represents the fulfillment of a ten year wish list of functionality. Dual 32 bit high speed ECUs and a sunlight readable graphical LCD Cockpit Controller combine for seamless power and efficiency in managing your engine's electronic fuel injection and electronic ignition functions. System32 will be offered in ignition only and full ignition + injection versions.

Engine Computer:
- Advanced 32-bit microprocessor
- EMI Filtering on all inputs
- Operates down to 3.5 volts
- Live Telemetry Interface
- Integrated ADI Control
- Up to 12 individually trimmable injector outputs
- Onboard SD Card enables easy field updates, loading and saving map files, and data logging
- Supports up to three O2 sensors
- Integrated Boost Control
- Lightning strike protection
- Full 3D mapping of your ignition timing and fuel delivery
- Compatible with standard left-right-both ignition switch.

Cockpit Controller:
- Color LCD 1000-NIT sunlight readable display
- Integral rolling tape Air Fuel Ratio display
- Convenient full size SD card enables easy field updates, loading and saving map files, and data logging
- Seamlessly interfaces with two ECUs
- Effortless tuning – enter your engine size and compression ratio to instantly set fuel and ignition base maps
- Fits in standard 3-1/8" aircraft instrument hole
- Annunciator display for ECU power, fuel pump power, and two battery voltages
- Multi-function knob and buttons provide intuitive access to functions.

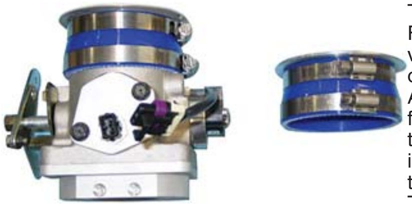
Description	Part No.	Price
4 Cylinder Ignition Only	07-19978	**$2,750.00**
4 Cylinder Ignition & Injection	07-19980	**$6,195.00**
6 Cylinder Ignition Only	07-19979	**$3,395.00**
6 Cylinder Ignition & Injection	07-19981	**$7,695.00**

EFII LIGHTWEIGHT FLYWHEELS

EFII compatible lightweight flywheels are available with or without the alternator belt pully. 149 tooth ring gear for late model starter motors. Available for O-320 engines (5/8" diameter bushing hole). Available for O-360 and larger engines (3/4" diameter bushing hole). Pulley version is 1.5 lbs lighter than stock. (4.94 lbs). No pulley version is 2.1 lbs lighter than stock. (4.34 lbs). All lightweight Flywheels have EFII trigger magnets pre-installed.

Description	Part No.	Price
Lightweight Flywheel W/ Alternator Belt Pulley+	07-19983	**$725.00**
Lightweight Flywheel No Pulley	07-19984	**$750.00**
Lightweight Flywheel W/ Alternator Belt Pullet	07-19985	**$725.00**
Lf320 Lightweight Flywheel No Pulley	07-19986	**$750.00**

EFII THROTTLE BODY FLANGE ADAPTER KIT



The EFII Throttle Body Flange Adapter kit provides a convenient method to join a Van's Filtered Air Box or other flat surface interface to the EFII throttle body which is included in all EFII electronic fuel injection kits.

The EFII throttle body has a 3 1/4" rounded snout at its inlet. the TBFA kit includes a high quality silicone hose coupler which fits onto the EFII throttle body snout. The other end of the silicone coupler has a 3" ID which fits the included 3" aluminum flange adapter. Stainless steel hose clamps are included to complete the assembly of the TBFA.

The aluminum flange adapter can be riveted, bolted, welded or bonded to your air filter box or air inlet. P/N 07-19987 .... **$40.00**

EFII FUEL FLOW INTERFACE

Required when Dynon or Garmin engine monitors are used with the EFII electronic fuel injection system. The EFII electronic fuel injection system does not require a mechanical fuel flow sensor to display fuel flow on your engine monitor. However, you will need our Fuel Flow Interface to translate the EFII Fuel Flow signal to the FloScan type signal required by Dynon and Garmin engine monitors. Grand Rapids and MGL engine monitors do not require this interface. The Fuel Flow Interface enclosure measures approx. 2" x 1.37" x 0.75".
P/N 07-19988 .... **$115.00**

EFII GROUND BUS

The EFII Ground Bus, part number GB-1, Is a great addition to a well designed wiring system. The GB-1 is a nicely designed "forest of tabs" type grounding junction that can clean up and organize all your avionics and system ground wires. Many people use two of these devices to lay out their grounding scheme. One for avionics or small signal grounds, and one for higher current grounds, such as lighting, strobes, pitot heat, etc. P/N 07-19993 .... **$35.00**

EFIS SPARK PLUG ADAPTERS

If you are going to run an electronic ignition on your aircraft engine, you will need a set of these to adapt the 18mm spark plug threads in your aircraft cylinder head to 14mm threads for use of automotive spark spark plugs. These are the highest quality adapters you will find.
18mm to 14mm Long Reach 4 Pack
P/N 07-19992 .... **$74.00**

BUS MANAGER

This Bus Manager is an important safety device for aircraft that have critical electronics that require a protected essential bus. This would include aircraft that are running electronic fuel injection, electronic ignition, electric fuel pumps, or critical instrumentation. Provides a triple redundant essential bus for all critical electronic equipment. This redundancy is crucial for engines that rely on uninterrupted +12V power to critical items. The end user no longer has to attempt to come up with a home brew bus system for their plane. The Bus Manager has been professionally designed and over-built to faithfully provide extreme reliability.
P/N 07-01852 .... **$595.00**

BUS MANAGER ACCESSORY KIT

The Accessory Kit for the Bus Manager consists of all the parts necessary to setup a Bus Manager based electrical distribution system for experimental aircraft.
P/N 07-01853 .... **$145.00**

ELECTRIC BOOST PUMP MODULE

The EFII Boost Pump Module (BPM) brings a new level of installation simplicity and functionality to the fuel system of your aircraft equipped with Bendix, AFP or Precision Airmotive type mechanical fuel injection. The BPM reduces a time consuming and frustrating plumbing job to a simple and clean, easy to set up installation. It is used to supply a steady source of 30PSI fuel to your engine during take-off, landing, priming, or emergency situations. The BPM has integral back flow prevention and pressure regulation valving.
Standard .... P/N 07-01854 .... **$687.00**
w/ 90° fitting .... P/N 07-02461 .... **$687.00**

Prices Subject to Change Without Notice

LIGHT SPEED ENGINEERING PLASMA IGNITION SYSTEM

Light Speed Engineering, LLC (LSE) is a pioneer in the design and production of ignition systems for experimental aircraft. 22 years of research and development have been invested in producing the PLASMA CDI (Capacitive Discharge Ignition) system product line. LSE's PLASMA CD systems are the ideal replacement for yesterday's magneto technology. You can replace one mag with a PLASMA CDI or, for maximum performance, replace both magnetos with these state of the art systems. The Plasma CDI is a solid-state, high performance ignition system intended for today's home built aircraft. Light Speed Engineering currently offers two Capacitive Discharge Ignition Systems: the PLASMA II PLUS and the PLASMA III. Standard Plasma CDI kits include: direct crank sensor assembly, high tension leads, harness, spark plugs, spark plug adapters, and ignition coils with mounting bracket. One or two systems can be used.

PLASMA II PLUS CDI

The Plasma II is Light Speed Engineering's basic electronic ignition system for aircraft. It is a lightweight, high-energy capacitor discharge system containing all of the essential Plasma CDI features. Its smaller size and lighter weight sets it apart from any other ignition source.

Like all LSE ignition systems it features automatic ignition advance based on engine load and RPM, auto retard for starting and a standard pulse tachometer output. The Plasma II was designed to provide a high tech ignition source at the cost of magnetos.

PLASMA III CDI

Light Speed Engineering has introduced a new ignition system to its line of products. The new Plasma III Capacitor Discharge System is the latest high performance ignition for all 4-cyl and 6-cyl aircraft engines. Its long duration spark and optimized timing curve makes more horsepower and improves fuel efficiency- at all altitudes. Other benefits include quick starts, reduced maintenance, light weight, lower EGT's and up to 20% more range. As with all LSE ignitions, RPM and manifold pressure inputs are used for our proprietary timing curves. The Plasma III is also capable of displaying the current timing advance, manifold pressure and rpm on an optional lightweight LCD display. The Plasma III can easily replace one or both magnetos, making your engine run better under all conditions.

PLASMA CAPACITIVE DISCHARGE IGNITION SYSTEMS

All Plasma CDI systems include: high tension leads, harness, spark plugs, spark plug adapters, ignition coils with mounting bracket, and Hall Effect Sensor module OR Direct Crank Sensor assembly.

Description	Part No.	Price
Plasma II Plus: 4 Cylinder Direct Crank Sensor	08-06294	**$1,328.00**
Plasma II Plus: 4 Cylinder Hall Effect Module	08-06295	**$1,460.00**
Plasma II Plus: 4 Cylinder with Mini DC Sensor	08-12135	**$1,250.00**
Plasma III: 4 Cylinder Direct Crank Sensor	08-00675	**$1,363.00**
Plasma III: 4 Cylinder Hall Effect Module	08-00676	**$1,675.00**
Plasma III: 6 Cylinder Direct Crank Sensor	08-00677	**$1,450.00**
Plasma III: 4 Cylinder with Mini DC Sensor	08-12136	**$1,460.00**
Plasma III: 6 Cylinder with Mini DC Sensor	08-12137	**$1,610.00**
Dual Plasma CDI Systems		
Dual Plasma II Plus: 4 Cylinder Direct Crank Sensor	08-06296	**$2,487.00**
Dual Plasma II Plus: 4 Cylinder Hall Effect Module	08-06297	**$2,865.00**
Dual Plasma II Plus: 4 Cylinder with Mini DC Sensor	08-12138	**$2,450.00**
Dual Plasma III: 4 Cylinder Direct Crank Sensor	08-06298	**$2,895.00**
Dual Plasma III: 4 Cylinder Hall Effect Module	08-06299	**$3,235.00**
Dual Plasma III: 6 Cylinder Direct Crank Sensor	08-06300	**$2,895.00**
Dual Plasma III: 4 Cylinder with Mini DC Sensor	08-12139	**$2,865.00**
Dual Plasma III: 6 Cylinder with Mini DC Sensor	08-12140	**$3,135.00**
Options		
On all Turbo and Super-Charged ignition systems add $124.95	08-06301	**$124.95**
On all Franklin and Continental engine ignition systems add $194.99	08-06302	**$194.99**

S.5 SPARK PLUG ADAPTER FOR 14MM SPARK PLUGS

RECOMMENDED BY KLAUS SAVIER OF LSE

Auto plug adapters allow for an easy conversion of 18mm (standard engine plug thread) to 14mm (common auto plug thread). Both short reach and long reach adapters are available. The Spark Plug Adapter allows you to use: High performance 14mm automotive plugs, that offer an almost unlimited variety of heat ranges, & electrode styles, designed specifically to take advantage of electronic ignitions - see ignition manufacturer documentation for recommendations (note: not all plugs are equally suited). Shorter plugs with 90° silicon boots provides greater clearance for sleeker cowls and less drag.

Some kits include 4 adapter gaskets.

Set of 4 without gaskets - Short Reach ......P/N 08-06753 ....**$85.00**
Set of 4 with gaskets - Short Reach ....P/N 08-06753-1 ....**$63.75**
Set of 4 without gaskets - Long Reach ....P/N 08-07608 ....**$85.00**

LSE DUAL OUTPUT IGNITION COIL

Ignition coils are typically mounted on the top center of the engine. They can also be mounted on the motor mount tubes using Adel clamps or on the firewall to a piece of angle aluminum. Ignition coils should be mounted so that spark plug lead length will be kept to a minimum for maximum spark energy and minimum noise. It is important that each coil connects to opposing cylinders, i.e. one coil fires cylinders 1 and 2 and the other coil fires 3 and 4.

Ignition Coil ....P/N 08-14012 ....**$97.75**
Mounting Bracket......P/N 08-14013 ....**$14.75**

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LSE ALUMINUM BRONZE REACH SPARK PLUG ADAPTERS

Light Speed Engineering's standard issue spark plugs are pictured to the left. Single ground electrode with a short body make these a durable option for most applications. W27EMR-C: Used on standard and high compression engines. The standard reach (1/2") spark plug adaptor is also pictured here (08-14009). This adaptor is used when converting aircraft engines using 1/2" reach aircraft spark plugs to 14mm plugs. Light Speed Engineering's spark plug adaptors are made of high strength aluminum bronze. *These plugs and adaptors are included with ignition kit purchase for those with 1/2" reach.

1/2" Reach Spark Plug Adapter ....P/N 08-14009 ....**$18.65**
3/4" Reach Spark Plug Adapter ....P/N 08-14010 ....**$23.75**
HHP Long Reach Spark Plug Adapter ....P/N 08-14011 ....**$23.75**

L2E LIGHT SPEED TO EFIS ADAPTER

The L2e allows you to display the parameters of your Light Speed ignition module directly on your EFIS during flight. Your EFIS can record these parameters for download and diagnosis.

P/N 10-06222 .... **$95.50**

WIRE TERMINAL CLIP

For 7 MM unshielded harnesses.

P/N 07-03500 .... **$0.45**

HIGH TENSION CABLE

Unshielded 7MM ignition cable consists of tinned conductor, rubber insulation, reinforced glass braid and Hypalon jacket that resists sun, weather, heat, chemicals and oxidation by ozone. Temperature range -65° to 250°F. P/N 07-03700 ....**$1.25 Ft.**

ENGINE BAFFLE IGNITION WIRE SEALS

P/N 526

M2376

Seal Type	Part No.	Each
5mm Wire Seal One-Wire	526	**$6.50**
5mm Wire Seal Three-Wire	376	**$6.50**
5mm Wire Seal Slick 3-Wire	M2376	**$26.50**
5mm Wire Seal Slick 2-Wire	M2375	**$23.99**
5mm Wire clamp Slick 2-Wire	M2755	**$4.85**

TEMPEST AVIATION SPARK PLUG APPLICATION CHART

FAA-PMA Approved Engine Applications	Massive Electrode								Fine-Wire Electrode				
	5/8"-24 thread				3/4"- 20 thread				5/8"-24 thread		3/4"- 20 thread		
Textron Lycoming	UREB37E	UREM37BY	UREM38E	UREM40E	URHB32E	URHB37E	URHM38E	URHM40E	UREB36S	UREM38S	URHB32S	URHB36S	URHM38S
AEIO-320: D1B, D2B, E1A, E1B, E2A, E2B		x	x	x			x	x		x			x
AEIO-360: A2A, A2C	x	x	x	x			x	x	x	x			x
AEIO-360: A2B	x	x	x	x		x	x	x	x	x			x
AEIO-360: A1D, A1E	x	x	x			x	x		x	x			x
AEIO-360: B1D, B1F6, B2F6, H1A		x	x	x			x	x	x	x			x
AEIO-360: B1H									x	x			x
AEIO-360: A1C	x	x	x	x			x	x		x			x
AEIO-360: A1A, A1B, A1B6	x	x	x			x	x			x			x
AEIO-360: A1E6		x	x	x			x	x		x			
AEIO-360: B1B, B1F, B1G6, B2F, B4A, H1B		x	x	x			x	x		x			x
AEIO-540: D4B5			x	x			x	x	x	x			x
AEIO-540: D4A5, D4C5, D4D5, L1B5, L1B5D			x	x			x	x		x			x
AEIO-540: L1D5										x			x
AIO-320: A1B, A2A, A2B, B1B, C1B		x	x	x			x	x		x			x
AIO-320: A1A							x	x					
AIO-360: A1A, A1B, A2A, A2B		x	x	x			x	x		x			x
AIO-360: B1B		x	x	x			x	x					x
GO-435: C2, C2A, C2A2, C2B, C2B1, C2B2, C2C, C2D, C2E, D1		x	x	x			x	x		x			x
GO-480: G1A6	x				x	x					x	x	
GO-480: B, B1A6, B1B, B1C, B1D, C1B6, C1D6, C2C6, C2D6, C2E6, C3A6, D1A, F1A6, F2A6, F2D6, F3A6, F3B6, F4A6, F4B6, F6			x	x			x	x		x			x
GO-480: G1B6, G1D6, G1H6, G1J6, G2D6, G2F6			x				x				x	x	
GO-480: E1A6										x			x
GSO-480: A1C6, A2A6			x				x			x			x
GSO-480: B1A6, B1B3, B1B6, B1C6, B1E6, B1G6, B1J6, B2C6, B2D6, B2G6, B2H6			x				x						
GSO-480: A1A6										x			x
HIO-360: E1BD					x	x			x		x		
HIO-360: A1A, A1B, B1A, B1B		x	x	x			x	x		x			x
HIO-360: C1A, C1B, D1A			x				x			x			x
HIO-360: E1AD, F1AD					x	x					x		
HO-360: A1A, C1A		x	x				x			x			x
HO-360: B1A, B1B			x				x			x			x
IGO-480: A1A6, A1B6											x	x	
IGO-540: A1A, A1B, A1C, B1A, B1B, B1C	x				x	x				x	x	x	x
IGSO-480: 13/16" reach cyl.	x				x	x					x	x	
IGSO-480: 1/2" reach cyl.			x				x			x			x
IGSO-540: B1A, B1C	x				x	x				x	x		x
IGSO-540: A1A, A1C, A1D, A1E, A1F, A1H	x				x	x					x		
IO-320: F1A	x					x			x	x			x
IO-320: C1B		x	x	x			x	x	x	x			x
IO-320: A1A, A2A, B1A, B1B, B1C, B1D, B1E, B2A, D1A, D1B, D1C		x	x	x			x	x		x			x
IO-320: E1A, E1B, E2A, E2B		x		x			x	x		x			x
IO-320: 1/2" reach cyl.				x				x		x			x
IO-320: 13/16" reach cyl.						x							
IO-360: C1A	x					x			x	x			x
IO-360: F1A	x			x		x			x	x			x
IO-360: A1B6		x	x				x		x	x			x
IO-360: A1B6D	x					x				x			x
IO-360: A1A, A1B, A1C, A1D, A1D6, A1D6D, A2A, A2B, A2C, A3B6, A3D6D, C1B, C1C, C1C6, C1D6, C1E6, C1E6D, C1F, D1A, J1A6D, J1AD		x	x				x			x			x
IO-360: B1A, B1B, B1C, B1D, B1E, B1F, B1F6, B1G6, B2E-nd, B2E-wd, B2F, B2F6, B4A, E1A		x	x	x			x	x		x			x
IO-360: A3B6D		x	x				x			x			x
IO-360: K2A, L2A			x	x			x	x		x			x
IO-360: M1A				x						x			x
IO-360: C1G6													x
IO-540: P1A5, R1A5	x				x	x			x	x	x	x	x
IO-540: K1A5, K1A5D, K1B5D, K1G5D, K1H5, K1J5, K2A5			x	x			x	x	x	x	x	x	x
IO-540: K1C5, K1D5, K1E5D, K1F5, K1F5D, K1G5, K1J5D, K1K5			x	x			x	x	x	x			x
IO-540: E1A5, E1B5, E1C5, K1B5					x	x			x	x	x	x	x
IO-540: J4A5					x	x			x	x		x	x
IO-540: K1E5					x	x			x	x			x
IO-540: S1A5, U1A5D, U1B5D	x				x	x				x	x	x	x
IO-540: N1A5	x				x	x				x	x		x
IO-540: M1A5, M1A5D, M1B5D, M1C5, M2A5D	x				x	x				x			x
IO-540: AA1A5, AA1B5	x				x	x					x	x	
IO-540: G1A5, G1B5, G1C5, G1D5, G1E5, G1F5			x	x			x	x		x	x	x	x
IO-540: A1A5, AC1A5, B1A5, B1B5, B1C5, C1B5, C1C5, C2C, C4B5, C4C5, C4D5, C4D5D, D4A5, D4B5, D4C5, L1A5, L1A5D, L1B5D, L1C5, T4A5D, T4B5, T4B5D, T4C5D, V4A5D			x	x			x	x		x			x
IO-540: AB1A5, W1A5, W1A5D, W3A5D			x	x			x	x					
IO-540: C4B5D										x			x
IO-720: 13/16" reach cyl.	x				x	x					x	x	
IO-720: 1/2" reach cyl.			x				x			x			x
IVO-360: A1A	x				x	x					x	x	
IVO-540: A1A	x					x							
LHIO-360: C1A, C1B			x				x						
LHIO-360: F1AD					x	x							
LIO-320: C1A	x					x				x			x
LIO-320: B1A		x	x	x			x	x		x			x
LIO-360: C1E6		x	x				x			x			x
LO-360: A1G6D, A1H6		x	x	x			x	x		x			x
LO-360: E1A6D, E1AD, E2AD, E2BD			x	x			x	x		x			x
LTIO-540: F2BD, J2B, J2BD, N2BD, R2AD					x	x					x	x	
LTIO-540: K1AD, U2A, V2AD, W2A					x	x							
LTO-360: E1A6D	x				x	x					x	x	
LTO-360: A1A6D	x				x	x					x		
O-235: C1, C1A, C1B, C1C, C2A, C2B, C2C, E1, E1B, E2A, E2B, F1, F1B, F2A, F2B, G1, G1B, G2A, G2B, H2C, J2A, J2B, K2A, K2B, K2C, L2A, L2C, M1, M2C, M3C, N2A, N2C, P1, P2A, P2C, P3C		x	x	x			x	x		x			x
O-290: A, AP, B, C, CP, D2A, D2B, D2C		x	x	x			x	x		x			x
O-290: D, D2				x				x		x			x
O-320: D1A, D1B, D1C, D1D, D1F, D2A, D2B, D2C, D2F, D2G, D2H, D2J, D3G, E2A, E2C		x	x	x			x	x		x			x
O-320: A1A, A1B, A2A, A2B, A2C, A2D, A3A, A3B, A3C, B1A, B1B, B2A, B2C, B2D, B3A, B3B, B3C, C1A, C1B, C2A, C2B, C2C, C3A, C3B, C3C, E1A, E1B, E1C, E1F, E1J, E2B, E2D, E2F, E2G, E2H, E3D, E3H		x	x	x			x	x		x			x

Not a complete list. To find the right Tempest Aviation Spark Plugs for your engine, see our complete application guide & engine cross reference at http://tempestplus.com

FAA-PMA Approved Engine Applications	Massive Electrode								Fine-Wire Electrode				
	5/8"-24 thread				3/4"- 20 thread				5/8"-24 thread		3/4"- 20 thread		
Textron Lycoming	UREB37E	UREM37BY	UREM38E	UREM40E	URHB32E	URHB37E	URHM38E	URHM40E	UREB36S	UREM38S	URHB32S	URHB36S	URHM38S
O-320: H1AD, H1BD, H2AD, H2BD, H3AD, H3BD			x	x			x	x		x			x
O-320: B2B										x			x
O-340: A1A, A2A, B1A			x	x			x	x		x			x
O-360: A1A-nd, A1A-wd, A1AD, A1C, A1D, A1F, A1F6, A1F6D, A1G, A1G6, A1G6D, A1H, A1H6, A1LD, A1P, A2A, A2D, A2E, A2F, A2G, A2H, A3A, A3AD, A3D, A4A, A4AD, A4D, A4G, A4J, A4K, A4M, A4N, A4P, A5AD, B1A, B1B, B2A, B2B, B2C, C1A, C1C, C1E, C1F, C1G, C2A, C2B, C2C, C2D, C2E, C4F, C4P, D1A, D2A, D2B, F1A6		x	x	x			x	x		x			x
O-360: E1A6D, E1AD, E1BD, E2AD, E2BD, G1A6, J2A			x	x			x	x		x			x
O-435: A, A2, C2			x	x			x	x		x			x
O-435: C, C1, K, K1			x				x			x			x
O-435: B										x			x
O-435: 1/2" reach cyl., 25											x		
O-540: L3C5D	x					x				x			x
O-540: A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4B5, A4C5, A4D5, B1A5, B1B5, B1D5, B2A5, B2B5, B2B5-wd, B2C5, B2C5-wd, B4A5, B4B5, B4B5-wd, E4A5, E4B5, E4B5-wd, E4C5, F1A5, F1B5, G1A5, G1A5-wd, G2A5, G2A5-wd, H1A5, H1A5D, H1B5D, H2A5, H2A5D, H2B5D, J1A5D, J1B5D, J1C5D, J1D5D, J2A5D, J2B5D, J2C5D, J2D5D, J3A5, J3A5D, J3C5D			x	x			x	x		x			x
O-540: D1A5										x			x
R-680: 2, 5, 6, B2, B4, B4B, B4C, B4D, B4E, B5, B6, D5, D6, E1, E2, E3, E3A, E3B				x				x		x			x
R-680: 4				x				x					
TIGO-541: B1A, C1A, D1A, D1B, E1A, G1AD					x								
TIO-360: A1A, A1B, A3B6, C1A6D	x					x							
TIO-540: A1A, A1B, A1C, A2A, A2B, A2C, C1A, E1A, F2BD, G1A, H1A, J2B, J2BD, K1AD, N2BD, R2AD, S1AD, T2AD, V2AD					x	x					x	x	
TIO-540: AA1AD, AB1AD, AB1BD, AE2A, AF1A, AF1B, AG1A, AH1A, AJ1A, W2A					x	x							
TIO-541: A1A, E1A4, E1B4, E1C4, E1D4	x				x	x							
TIVO-540: A2A					x	x					x		
TO-360: C1A6D, E1A6D, F1A6D	x				x	x					x	x	
TO-360: A1A6D	x				x	x					x		
TVO-435: A1A, C1A, D1A, E1A, F1A, G1A, G1B	x				x	x				x	x	x	x
TVO-435: B1B, D1B	x				x	x				x	x		x
TVO-435: 13/16" reach cyl.	x				x	x					x	x	
TVO-435: 1/2" reach cyl.			x				x			x			x
VO-360: A1A, A1B, B1A		x	x	x			x	x		x			x
VO-435: 13/16" reach cyl.	x				x	x					x	x	
VO-435: 1/2" reach cyl.			x				x			x			x
VO-540: A1A, A2A, B1A, B1B, B1B3, B1C, B1D, B1E, B1F, B1H3, B2A, B2C, B2D, B2E, B2G, C1A, C1B, C1C3, C2A, C2B, C2C							x			x			x
VO-540-A, B, C Series (Long Reach)	x					x			x			x	
IIO-540-A, AA, AB, AE, AF,AG, AH, AJ,AK, C, E, F, G, H, J, K, N, R, S, T, U, V, W Series					x	x					x	x	
Teledyne Continental Motors (TCM)													
A-65: 12, 12F, 12FJ, 12J, 14, 14F, 14FJ, 14J, 8FJ, 9, 9F, 9FJ, 9J		x		x				x		x			x
A-65: 1, 3, 6, 6J, 7, 8, 8F, 8J				x						x			x
A-75: 3, 6, 6J, 8, 8F, 8FJ, 8J, 9, 9J				x						x			x
C-115: 1, 2		x		x				x		x			x
C-125: 1, 2		x		x				x		x			x
C-145: 2, 2H, 2HP		x	x	x			x	x		x			x
C-75: 12, 12F, 12FH, 12FHJ, 12FJ, 12J, 15, 15F		x	x	x			x	x		x			x
C-75: 8, 8F, 8FH, 8FHJ, 8FJ, 8J				x						x			x
C-85: 14		x	x	x			x	x		x			x
C-85: 12, 12F, 12FH, 12FHJ, 12FJ, 12J, 14F, 15, 15F, 8, 8F, 8FHJ, 8FJ, 8J				x						x			x
C-90: 12F, 12FH, 12FJ, 12FP, 14F, 14FH, 14FJ, 16F, 8F, 8FJ				x						x			x
E-165: 2, 3, 4		x	x	x			x	x		x			x
E-185: 1, 10, 11, 2, 3, 5, 8, 9		x	x	x			x	x		x			x
E-225: 2, 4, 8, 9		x	x	x			x	x		x			x
FSO-470: A			x				x						
GIO-470: A					x								
GO-300: A, B, C, D, E, F		x	x	x			x	x		x			x
GTSIO-520: E					x						x		
GTSIO-520: C, D, F, H, K, L, M, N					x						x	x	
IO-240: A, B			x				x			x			x
IO-346: A, B			x	x	x		x	x		x			x
IO-360: B			x	x			x	x		x			x
IO-360: DB			x				x			x			
IO-360: A, AB, C, CB, D, E, ES, G, GB, H, HB, J, JB, K, KB			x				x			x			x
IO-470: A, C, G, J, K, P, R, T			x	x			x	x		x			x
IO-470: LO, VO					x						x		
IO-470: D, E, F, H, L, M, N, S, U, V					x						x	x	
IO-520: A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB, N, NB					x						x	x	
IO-550: D, E, F, G, L, N					x								
IO-550: A, B, C					x						x	x	
IOF-240: B			x				x						
IOF-550: B, C, D, E, F, L, N, P, R					x								
LIO-470: A			x	x			x	x		x			x
LIO-520: P					x								
LTSIO-360: E, EB, KB, RB			x				x			x			x
LTSIO-520: AE					x						x	x	
O-200: A, B, C				x						x			x
O-300: A, B, C, D, E		x	x	x			x	x		x			x
O-470: 11, 13, 13A, 15, 4		x	x	x			x	x		x			x
O-470: B, G, H, M, N, P, R, S			x	x			x	x		x			x
O-470: 2			x				x			x			x
O-470: B-C1, G-C1, K-C1, L-C1, M-C1			x	x			x	x					
O-470: 11-C1, 11B, 11B-C1, A, E, J, K, L				x				x		x			x
O-470: T, U					x						x	x	
R-670: 11, 11A, 3, 4, 5, 8, A, B, C, D, E, F, G, H		x		x				x					
R-9: A	x					x							
TSIO-360: A, AB, B, C, D, DB, E, EB, F, FB, G, GB, H, HB, JB, KB, LB, MB			x				x			x			x
TSIO-360: BB, CB, NB, PB, RB, SB			x				x						
TSIO-470: B, C, D					x						x	x	
TSIO-520: LB					x								
TSIO-520: A, AF, BB, BE					x						x		
TSIO-520: AE, B, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, M, N, NB, P, R, T, U, UB, VB, WB					x						x	x	
TSIO-550: A, B, C, E					x								
W-670: 16, 23, 24, 6A, 6N, K, M		x		x				x		x			x

EP

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Prices Subject to Change Without Notice

TEMPEST AVIATION SPARK PLUGS

Made in USA. Copper, co-extruded inside a nickel alloy sleeve ensures outstanding heat and electrical conductivity while the nickel sleeve offers high resistance to corrosive combustion gases. High Alumina Ceramic Insulator. "V" tip focuses heat to reduce fouling and enhance heat range control. Proprietary Glass Center Seal, and resistor design, eliminating resistor degradation causing misfire. Environmentally preferable electrolytic nickel provides outstanding durable finish, superior corrosion protection, and extreme wear resistance. Aviation grade nickel electrode design focuses on minimizing sparking voltage requirements. Harness Wire Contact is a smooth, uninterrupted, oxide treated spring contact surface.

MASSIVE ELECTRODE

Model	Part No.	Price
UREM38E	08-00046	**$25.85**
URHM38E	08-00047	**$25.85**
UREM40E	08-00048	**$25.85**
URHM40E	08-00049	**$25.85**
URHB32E	08-00245	**$25.85**
UREB37E	08-00246	**$25.85**
URHB37E	08-00247	**$25.85**
UREM37BY	08-00248	**$25.85**

FINE WIRE

Model	Part No.	Price
URHB32S	08-07213	**$79.95**
URHB36S	08-01230	**$79.95**
URHM38S	08-01232	**$79.95**
UREB36S	08-01233	**$81.75**
UREM38S	08-01234	**$79.95**

BOXES OF 12 SPARK PLUGS ARE AVAILABLE FOR EACH MODEL. CALL OR VISIT OUR WEBSITE FOR PRICING.

NGK SPARK PLUGS

Note: The spark plugs listed are not for aircraft application

Size	Description	Part No.	Price
10mm	CR5HSB	08-06263	**$2.25**
12 mm	DCPR7E	08-00504	**$3.65**
12 mm	DCPR8E (Removable Terminal Nut)	08-01228	**$3.65**
12 mm	DCPR8E (Solid Terminal Nut)	08-07044	**$3.65**
12 mm	DR8EA	08-00693	**$2.55**
14 mm	BR8EIX	08-00650	**$9.50**
14 mm	B8ES (Solid Terminal Nut)	08-00730	**$2.65**
14 mm	BR8ES	08-00736	**$2.50**
14 mm	B7ES	08-07039	**$2.35**
14 mm	B9ES	08-07040	**$2.35**
14 mm	BR7ES	08-07041	**$2.50**
14 mm	BR9ES	08-07042	**$2.65**
14 mm	BR7EIX	08-07045	**$9.50**
14 mm	BR9EIX	08-07046	**$8.75**
12mm	DP9EA-9	15-05219	**$2.55**
14mm	IK24	15-05204	**$11.50**

HELI-COIL INSERTS

18mm long Heli-Coil aviation grade spark plug inserts.
Heli-coil Insert 18mm X 13/16 "..... P/N 08-13858 .... **$10.70**
Heli-coil Insert 18mm X 1/2 "......... P/N 08-13859 ...... **$8.95**

SILICONE HEAT TRANSFER COMPOUND

A thermally conductive grease based on zinc oxide and silicone oil that provides good thermal conductivity across a wide operating temperature range. Non-conductive, non-capacitive, and non-corrosive, it is used to improve the thermal conductivity between irregular metal surfaces. It is widely used to improve heat flow between heat sinks and heat generating electronic components such as CPU's, GPU's, and power components. Silicone thermal greases are preferred in high operating temperature applications where silicone migration is not a concern. 4 Gram / 1.7 mL Pouch. P/N 09-05316 .... **$3.35**

SPARK PLUG TYPE DESIGNATION SYSTEM

In the early 1900s, small planes flew with single ignition systems powered by adapted automobile engines using Champion-brand automotive spark plugs. By the 1920s, the company had developed innovative spark plugs designed specifically for the aviation industry. Champion Aerospace designs and manufactures Champion-brand piston-engine ignition components for both OEM and aftermarket for general aviation aircraft applications. Every spark plug manufactured has built-in design advantages that assure longer life and greater reliability. A typical spark plug number with symbol explanation.

A TYPICAL SPARK PLUG NUMBER WITH SYMBOL EXPLANATION

R — Push-wire—90° to Center

R H B 37 E
① ② ③ ④ ⑤

1. RESISTOR
None — No Resistor R — Mil-Spec. Resistor - Erosion protection

2. BARREL STYLE
None — Unshielded E — Shielded 5/8"-24 Thread
H — Shielded 3/4"-20 Thread (All Weather Plug)

3. MOUNTING THREAD—REACH—HEX SIZE
B - 18mm 13/16"/2.06cm 7/8"/2.22cm M— 18mm 1/2"/1.27cm 7/8"/2.22cm
J - 14mm 3/8"/0.95cm 13/16/2.06cm L — 14mm 1/2"/1.27cm 13/16/2.06cm
U - 18mm 1-1/8"/2.85cm 13/16/2.06cm

4. HEAT RATING POSITION
Low number—cold High number—hot

5. ELECTRODE DESIGN
None—Conventional single E — Two prong massive N — Four prong massive
P—Fine wire (Platinum) W — Fine wire (Iridium) B —2 prong massive, Tangent to Center

CHAMPION SPARK PLUGS

SHIELDED – MASSIVE ELECTRODES			
5/8-24*	**Price**	**3/4-20***	**Price**
REJ38 (14MM)	**$54.75**	RHM38E	**$31.80**
REL37B (14MM)	**$55.75**	RHM40E	**$31.80**
REB37E	**$34.50**	RHU27E	**$70.75**
REM37BY	**$31.80**	RHB32E	**$31.80**
REM38E	**$31.80**		
REM40E	**$31.80**		
REB32E	**$34.50**		
*SHIELDED – IRIDIUM ELECTRODES***			
5/8-24*	**Price**	**3/4-20***	**Price**
REM38S	**$106.95**	RHB32S	**$106.95**
REB-36S	**$106.75**	RHB36S	**$106.95**
		RHM38S	**$106.95**
UNSHIELDED			
5/8-24*	**Price**	**3/4-20***	**Price**
M41E (18MM)	**$37.95**		

* Shielded barrel thread size. Check barrel size - 5/8x24 or 3/4x20 threads before ordering and select proper plug number.

SEE PREVIOUS PAGE FOR SPARKPLUG APPLICATION TABLE.

**The "Iridium S" sparkplugs replace the Platinum and "W" Iridium types. Increased bore diameter improves scavenging action. Greater clearance volume can accept more combustion deposits. Single Iridium electrode offers greater resistance to lead attack. Easy to clean Easy to gap

CHAMPION RVL38S SPARK PLUGS

Used on M14 YAK
P/N 08-06280..................... **$127.95**

NOTE: Spark plugs are shipped in factory sealed plastic cases. Opened spark plug cases make the spark plugs non-returnable. Please do not open any spark plug until you are sure you have received the correct spark plugs for your application.

CHAMPION SPARK PLUG ANTI-SEIZE

Apply sparingly to second and third threads. Do not contact electrodes as it could short out the plug. Do not apply to shielding barrel threads. Unbreakable 4oz. bottle with applicator brush top............................P/N 2612 .... **$10.95**

TEMPEST SPARK PLUG THREAD LUBRICANT & ANTI-SEIZE COMPOUND

Comes packaged with a brush that applies the lubricant to the threads with a smooth even flow, doesn't drip, and more importantly, won't inadvertently run down on the firing end of the spark plug potentially causing an environment conducive to fouling or even pre-ignition. It stays where you put it and covers like a blanket on the first pass! P/N 12-00709........... **$8.65**

ATS2612 SPARK PLUG THREAD LUBRICANT

A high-temperature, graphite lubricant that is applied to spark plug threads prior to installation to prevent galling and seizure. Non-hazardous compound.

P/N 12-02946.......**$10.90**

TEMPEST COPPER SPARKPLUG GASKET

AN4027-1, 18MM P/N M673. These are the AN4027-1 18mm copper spark plug gaskets. Model U674. Made of solid copper to current aircraft standards.Box of 100 P/N 07-01798 . **$47.50**

COPPER SPARK PLUG GASKETS

Made of solid copper to current aircraft standards. Available in 14 MM and 18 MM sizes.

AN4027-2, 14MM.................... P/N 07-01261........**$0.49 ea**
AN4027-1, 18MM.................... P/N 07-00877........**$0.37 ea**

CHAMPION M674 SPARK PLUG GASKET

M674 - Gasket: Spark Plug, 18mm. Made of solid copper to current aircraft standards. Box of 100. 1 in. X 1 in. X 0.063 in.................................... P/N 07-03425...... **$66.75**

SURPLUS SPARK PLUG BARGAINS

New surplus 18MM longreach, shielded, 3/4-20 barrel. FAA approved for Continental IO-470, GIO-470, TSIO-470, IO-520 & GTSIO-520. Not for 0-470, which uses short reach plugs.

P/N 08-03699 .... **$9.65 ea**

SEE TOOL SECTION FOR FULL LINE OF CHAMPION SPARK PLUG TOOLS

AN4062-1 DEHYDRATOR PLUGS 18MM

These plugs are used to prevent rust and corrosion in engines while in storage. Contain silica gel which turns from blue to pink when moisture is absorbed. Reusable & refillable. The pink silica gel may be reactivated (after removing from reservoir) by heating for 16 hours at 250°F.

AN4062-1 (18MM)........................ **$8.80 ea**

SILICA GEL. Indicating type, for refilling plugs.

1/4 Lb. Bag......... P/N 07-00731........ **$6.50**
1 Lb. Can .... P/N 07-03400...... **$24.95**

SPARK PLUG HOLE PROTECTIVE CAPS

#9721 Spark Plug Hole Caps. Seal your Spark plug hole openings with these inexpensive tapered fit plastic caps. Prevent debris from accidentally entering ports and creating damage or mischief. Ideal for sealing for winter storage, preventing moisture from corroding internal engine parts. Also can be used to seal ports for leak testing, an important procedure that locates potential air leaks before they cause costly engine damage. Tapered fit provides positive seal for either vacuum or pressure testing, Tapers from 0.482" to 0.526".

P/N 15-06003 .... **$0.23**

CHAMPION IGNITERS

The research and development team at Champion Aerospace has pioneered the use of exotic materials to extend the life and enhance performance of turbine Igniters.

The patented Champion Series 21™ Igniter and lead incorporate numerous design benefits that improve performance, installation, and maintenance. Variable immersion depth allows it to be used in multiple engine platforms. The self-centering conical contact virtually eliminates flashover and arcing.

Description	Part No.	Price
CH31547C Champion Igniter	07-03236	**$377.00**
CH31621A Champion Igniter	07-03237	**$1,020.00**
CH31815 Champion Igniter	07-03238	**$1,486.00**
CH31815-2 Champion Igniter	07-03239	**$1,336.00**
CH34016-1 Champion Igniter	07-03240	**$510.00**
CH34055 Champion Igniter	07-03241	**$257.95**
CH34269 Champion Igniter	07-03243	**$789.00**
CH34419 Champion Igniter	07-19263	**$1,316.00**
CH34659-3 Champion Igniter	07-03244	**$899.00**
CH34682 Champion Igniter	07-03245	**$1,049.00**
CH34745 Champion Igniter	07-03246	**$1,094.00**
CH34804-3 Champion Igniter	07-03247	**$1,054.00**
CH34817 Champion Igniter	07-19370	**$542.00**
FHE146-7A Champion Igniter	07-03287	**$620.00**
FHE164E Champion Igniter	07-03288	**$2,680.00**
FHE246-4 Champion Igniter	07-03289	**$451.00**
CH31487A Champion Igniter	07-03492	**$355.00**
Y183-5 Champion Igniter	07-03548	**$2,445.00**
CH53399-06 Turbine Ignition Lead	07-03250	**$627.00**
CH3442-3 Turbine Ignition Lead	07-18032	**$1,095.00**

CHAMPION EXCITERS

Champion Aerospace manufactures a broad range of high performance ignition exciters. From pioneering designs in solid-state technology, to the new, patented PPT exciter, the first true high-tension solid-state exciter, Champion combines the reliability and performance critical to aviation applications.

The Champion solid state ignition exciters are significantly lighter and more compact than any existing product on the market. PPT combines the technologies of both solid-state and spark-gap technology, but suffers none of the drawbacks.

Part No.	Description	Price
08-13063	CHJ92015-1 Champion Exchange Exciter Box	**$4,997.00**
08-13063-C	Core Charge For CH92015-1	**$930.00**
07-03549	Champion 305012-2 Exciter Box Exchange	**$4,367.00**
07-03549-C	Core Charge For 305012-2	**$824.00**
08-13063	CH92106-1 Champion Exchange Exciter Box	**$4,997.00**
08-13063-C	Core Charge For CH92106-1	**$930.00**

CHAMPION IGNITION LEADS

Champion Aerospace designs and manufactures a full range of aerospace ignition leads for turbine engine applications. New ignition leads from Champion Aerospace are available for a wide range of turbine engines, from small turbine APU applications to the large GE and PW turbofan engines, including the new Rolls Royce Trent 900 engines for A380 aircraft.

53067-21 Ignition Lead JT15D............... P/N 07-03542............ **$979.00**
53067-38.5 Ignition Lead JT15D............ P/N 07-03543............ **$990.00**
53399-09 Ignition Lead........................... P/N 07-03546............ **$533.00**
53399-06 Ignition Lead........................... P/N 07-03250............ **$627.00**
53442-3 Ignition Lead............................ P/N 07-18032.......... **$1,095.00**
53247 Ignition Lead............................... P/N 07-18000.......... **$1,110.00**

LAMAR (ELECTRODELTA) VOLTAGE REGULATORS

Mfg P/N	Description	Replacement for	Part Number	Price
VR500-0101	27.7V Voltage Regulator	Cessna C11004-0101, C611002-0102, -0105	07-00912	**$225.95**
VR500-0102	28.8V Voltage Regulator	Cessna C611004-0102	07-00913	**$225.95**
VR515F	28V Voltage Regulator	Cessna C611501-0102	07-00914	**$354.00**
VR515GA	28V Voltage Regulator	Cessna C611005-0103,-0102	07-00915	**$326.00**
VR580	28V Voltage Regulator	Cessna C611008-0101	07-00916	**$472.00**
VR801	28V Alternator Control	Cessna C611007-0101	07-00919	**$763.00**
VR415F	14V Voltage Regulator	Zeftronic R15300	07-00910	**$506.00**
VSF7203A	12V Voltage Regulator	Zeftronic R1510N	07-00921	**$347.00**
VR2000-28-2	28V Voltage Regulator	N/A	07-00895	**$779.00**
VSF7403A	24V Voltage Regulator	Voltage Regulator VSF7403A	07-00922	**$347.00**
VR200A	14V Voltage Regulator	Piper 484121	07-00896	**$263.95**
VR300-14-20	14V Voltage Regulator	Delco-Remy 1118736, E,1118904, 1119226	07-00899	**$304.00**
VR300-14-35	14V Voltage Regulator	Delco-Remy 1118704	07-00901	**$297.95**
VR300-14-50	14V Voltage Regulator	Delco-Remy 1118713, 1118884, 1119224C	07-00902	**$303.00**
VR300-28-25	28V Voltage Regulator	Delco-Remy 1118951, 1118975, 1119218C	07-00905	**$302.00**
VR300-28-40	28V Voltage Regulator	Delco-Remy 1119237,1119656	07-00906	**$309.00**
Hartzell (Electrodelta) Voltage Regulators (Factory Overhauled)				
Mfg. P/N	**Description**	**Replacement for**	**Part Number**	**Price**
-	14V Voltage Regulator	Zeftronic R1510L	07-00623	**$179.95**
VR515G-2	28V Voltage Regulator	Schweitzer Aircraft Corp 269A4985	07-01108	**$419.00**
Hartzell (Electrodelta) Voltage Sensors & Monitors (Factory New)				
Mfg. P/N	**Description**	**Replacement for**	**Part Number**	**Price**
GPM-001	28V Ground Power Motor	Cessna C593005-0101	07-01275	**$280.95**
OS60	14V Overvoltage Sensor	Cessna C5930001-0101	07-00890	**$166.75**
OS100-0101	28V Overvoltage Sensor	Cessna C593003-0101	07-00887	**$286.95**
OS75-14	14V Overvoltage Sensor	Zeftronic V1510A	07-00891	**$205.95**
OS75-28	28V Overvoltage Sensor	Zeftronic V2510A	07-00892	**$287.95**

***** For complete application chart please visit our website at www.aircraftspruce.com***

EP

OVERHAULED COMPONENTS

Alternators, generators, and starters which are remanufactured for installation in general aviation aircraft. Fully FAA approved.

EXPERIMENTAL ALTERNATORS

Part No.	Volt/Amp	Price
ES-6012	14V60A	**CALL**
ES-6024	28V60A	**CALL**
ES-6212	13.8V60A	**CALL**
ES-6224	28V60A	**CALL**
ES-7024	28V70A	**CALL**
ES-10024	28V100A	**CALL**
1100715R	12V70A	**CALL**
1100716R	12V52A	**CALL**
1100717R	12V70A	**CALL**
1100718R	24V50A	**CALL**
1100723R	24V50A	**CALL**
1100747R	24V50A	**CALL**
1100753R	24V65A	**CALL**
1100792R	24V65A	**CALL**

DELCO- GENERATORS

Part No.	Volt/Amp	Price
DEL1101876	12V12A	**$309.00**
DEL1101877	12V26A	**$308.00**
DEL1101878	12V13A	**$309.00**
DEL1101879	12V25A	**$309.00**
DEL1101880	12V26A	**$308.00**
DEL1101881	12V13A	**$309.00**
DEL1101882	12V26A	**$309.00**
DEL1101887	12V35A	**$309.00**
DEL1101888	12V50A	**$309.00**
DEL1101890	12V20A	**$308.00**
DEL1101892	12V35A	**$308.00**
DEL1101897	12V35A	**$309.00**
DEL1101898	12V35A	**$309.00**
DEL1101899	12V20A	**$309.00**
DEL1101900	12V35A	**$308.00**
DEL1101901	24V26A	**$308.00**
DEL1101904	24V25A	**$309.00**
DEL1101905	24V25A	**$309.00**
DEL1101906	24V25A	**$309.00**
DEL1101908	12V50A	**CALL**
DEL1101909	12V50A	**$308.00**
DEL1101910	12V20A	**$309.00**
DEL1101911	24V25A	**$309.00**
DEL1101912	12V50A	**$308.00**
DEL1101913	12V35A	**$309.00**
DEL1101914	12V35A	**$307.00**
DEL1101915	12V50A	**$308.00**
DEL1101917	12V35A	**$309.00**

Part No.	Volt/Amp	Price
DEL1101918	12V35A	**$309.00**
DEL1101923	12V50A	**$309.00**
DEL1105052	24V40A	**CALL**
DEL1105053	24V40A	**CALL**
DEL1105054	24V50A	**$356.00**
DEL1105055	24V50A	**$337.00**
DEL1105052	24V/50A	**CALL**
DEL1105056	24V40A	**$336.00**
DEL1105057	24V50A	**$343.00**
DEL1101876	12V13A	**$309.00**
DEL1101877	12V26A	**$308.00**
DEL1101878	12V13A	**$309.00**
DEL1101909	12V50A	**$308.00**
DEL1105055	24V50A	**$337.00**

DELCO STARTERS

Part No.	Volt/Amp	Price
DEL1108234	24V	**$436.00**
1108249R	12V	**CALL**
1109511R	12V	**CALL**
1109517R	24V	**CALL**
1109511R	12V	**CALL**
1109518R	24V	**CALL**
1109511R	12V	**CALL**
1109511R	12V	**CALL**
1109514R	12V	**CALL**
1109651R	12V	**CALL**
DEL1109652	12V	**$261.95**
1109656R	12V	**CALL**

Part No.	Volt/Amp	Price
1109657R	12V	**CALL**
1109660R	12V	**CALL**
1109662R	24V	**CALL**
1109678R	12V	**CALL**
1109689R	12V	**CALL**
1109687R	24V	**CALL**
1109677R	12V	**CALL**
1109678R	12V	**CALL**
1109519R	12V	**CALL**
1109518R	24V	**CALL**
1109678R	12V	**CALL**
1109681	12V	**CALL**

Minimum Core Charge on Delco Alt. and Starters $200.00

*Drive not included (DEL 1971890). For price see listing for drives.

**Drive not included (DEL 1940969). For price see listing for drives.

LAMAR 14V VOLTAGE REGULATOR

Lamar Voltage Regulator DGR6-1 fits Cessna 150 thru Cessna 210 series aircraft. DGR6-1 is the PMA replacement for DGR6, C611001-0101, C611001-0102, C611001-0201, and VR600. Manufactured in the USA.
P/N 07-01897..................**$189.95**

LAMAR 28V ALTERNATOR CONTROL

Lamar Alternator Control DGR3-1 fits Cessna 150 thru Cessna 210 series aircraft. DGR3-1 is the PMA replacement for DGR3, C611005-0103, C611501-0102, and VR15F. Manufactured in the USA.
P/N 07-01896.....................**$236.95**

HARTZELL ENGINE TECH. ALTERNATORS

HARTZELL ENGINE TECHNOLOGIES ALTERNATORS

The most popular alternators in use on Cessna and Beech aircraft are of Ford manufacture. Chrysler alternators are usually found on Piper aircraft. These units are manufactured to aircraft specifications and are not available through automotive parts stores. Note: Core charge is billed on all exchange units & credited upon receipt of acceptable core.

ALTERNATOR PRODUCT INFORMATION

If Unit Begins With:	Then Unit Is:
ALE-	12V / 40A
ALH-	12V / 55A
ALM-	12V / 30A
ALT-	24V / 50A
ALU-	24V / 70A
ALV-	24V / 100A
ALX-	12V / 70A
ALY-	12V / 60A
ALZ-	12V / 50A
ANG-	24V / 60A

If First Digit After (-) Is:	Then Unit Is:
6	Belt Driven / No Blast Tube
8	Belt Driven / Blast Tube
9	Gear Driven

If Unit Ends With:	Then Unit Is:
LS	New Unit - No Pulley
RS	Factory Rebuilt/Over-hauled- No Pulley
G	Ground Strap Attached
R	Factory Rebuilt/Over-hauled
None	Factory New- Various Applications

CHRYSLER ALTERNATORS - FACTORY OVERHAULED			
Model No.	Description	Part No.	Price
4111810R	12V/60A BD	07-06402	**$543.00**

FORD ALTERNATORS - FACTORY OVERHAULED			
Model No.	**Description**	**Part No.**	**Price**
DOFF10300BR	28V/60A BD	07-06413	**$539.00**
DOFF10300DR	28V/60A GD	07-06418	**$714.00**
DOFF10300ER	28V/38A GD	07-06414	**$714.00**
DOFF10300FR	15V/60A GD	07-06415	**$738.00**
DOFF10300JR	15V/60A BD	07-06416	**$535.00**
E3FF10300AAR	28V/95A BD	07-06417	**$609.00**
E3FF10300BAR	28V/60A BD	07-03254	**$655.00**
EOFF10300AAR	12V/95A BD	08-07036	**$659.00**
EOFF10300BAR	28V/60A BD	07-06419	**$676.00**

HARTZELL ENGINE TECH. OVERHAULED AL SERIES ALTERNATORS

Aircraft Spruce carries the full line of alternators, and starters which are remanufactured by Hartzell for installation in general aviation aircraft. Fully FAA approved. All prices shown are exchange prices. Core charges are billed when unit is shipped. Core credit is issued upon return of acceptable like model core to Aircraft Spruce West in Corona, CA. NOTE: If core is not in stock at factory, customer must send core to Aircraft Spruce at time of order to have the core overhauled.

Hartzell Part No.	Volt/Amp	Drive	Replaces	PN	Price
ALE-6520R	12V/40A	Belt	ALE-6420, Lyc LW-14302	08-07005	**$575.00**
ALE-8520R	12V/40A	Belt	ALE-8420, Lyc LW-14300	08-07006	**$613.00**
ALE-8521R	24V/70A	Belt	--	08-07007	**$610.00**
ALT-8520R	24V/50A	Belt	ALT-8420, CMI 652486	07-06404	**$460.00**
ALT-8521R	24V/50A	Belt	ALT-8421	08-07008	**$588.00**
ALT-8521RLS	24/50A	--	--	08-15660	**$1,020.00**
ALT-9522R	24V/50A	Direct	ALT-9422, CMI 641668	07-06405	**$466.00**
ALU-6521RS	24V/70A	No Pully/Belt	ALU-6421LS, Lyc LW-14329	08-07009	**$586.00**
ALU-8521R	24V/70A	Belt	ALU-8421	07-06406	**$596.00**
ALU-8521RS	24V/70A	No Pully/Belt	ALU-8421LS, Lyc LW-14326	07-06407	**$580.00**
ALU-8532RLS	8V/75A	--	--	08-15661	**$570.00**
ALU-9522R	24V/70A	Direct	--	08-07010	**$631.00**
ALV-8511R	24V/100A	--	--	08-07011	**$832.00**
ALV-8512R	24V/100A	--	--	08-07012	**$811.00**
ALX-6523R	12V/70A	Belt	--	08-07013	**$596.00**
ALX-8521R	12V/70A	Belt	--	07-06421	**$611.00**
ALX-8521RS	12V/70A	No Pully/Belt	--	08-07014	**$572.00**
ALX-9522R	12V/70A	Direct	--	08-07015	**$612.00**
ALX-9524R	12V/70A	Direct	CMI 641670	08-07016	**$487.00**
ALX-9525BR	12V/70A	Belt	CMI 643008	07-06410	**$489.00**
ALY-6520R	12V/60A	Belt	Lyc LW-14333	08-07017	**$570.00**
ALY-6520RLS	12V/60A	--	--	08-15662	**$559.00**
ALY-6521R	12V/60A	Belt	--	07-06411	**$456.00**
ALY-6522R	12V/60A	Belt	--	08-07018	**$456.00**
ALY-6527R	12V/60A	Belt	Lyc LW-14315	08-07019	**$592.00**
ALY-8520R	12V/60A	Belt	--	07-06412	**$556.00**
ALY-8520RS	12V/60A	No Pully/Belt	Lyc LW-14313	08-07020	**$558.00**
ALZ-8523	12V/50A	--	--	08-15663	**$602.00**
ALY-8524R	12V/60A	Belt	--	08-07021	**$538.00**
ALY-8526R	12V/60A	Belt	Lyc LW-14312	08-07022	**$557.00**

HARTZELL ENGINE TECHNOLOGIES ES4020 SERIES OVERHAULED ALTERNATORS

Chrysler Style - FAA/PMA Approved Proven, Tested, & Trusted. As the OEM, Hartzell Engine Technologies offers factory new alternators engineered specifically to meet the challenges and increased demands of today's aircraft electrical systems. Each unit is aviation designed & developed, no automotive parts used. For decades these alternators have been powering Lycoming/Continental engines with unmatched performance and reliability.

Volts/Amps	Description	Model No.	Part No.	Price
24V/85A	Belt Driven	ES-4024LPR	08-15664	**$755.00**
24V/85A	Belt Driven	ES-4029R	08-15665	**$602.00**

TCM ALTERNATORS - OVERHAULED			
Model No.	**Volt/Amp**	**Part No.**	**Price**
642056R	-	**08-07024**	**$980.00**
646490R	-	**08-07025**	**$565.00**
Part No.	**Volt/Amp**		**Price**
649280R	28V70A	**08-07027**	**$963.00**

ES4000 SERIES ALTERNATORS - OVERHAULED			
Model No.	**Volt/Amp**	**Part No.**	**Price**
ES4019RS	28V130A	**08-07118**	**$937.00**
ES-4020R	14V60A	**08-07120**	**$662.00**

PLEASE VISIT OUR WEBSITE OR CALL FOR DETAILS ON THE Hartzell CORE RETURN POLICY.

HARTZELL ENGINE TECHNOLOGIES ES4020 SERIES ALTERNATORS - FACTORY NEW

Chrysler Style - FAA/PMA Approved Proven, Tested, & Trusted. As the OEM, Hartzell Engine Technologies offers factory new alternators engineered specifically to meet the challenges and increased demands of today's aircraft electrical systems. Each unit is aviation designed & developed, no automotive parts used. For decades these alternators have been powering Lycoming/ Continental engines with unmatched performance and reliability.

Volts/Amps	Description	Model No.	Part No.	Price
24V/85A	Belt Driven	ES4024	08-15656	**$952.00**
24V/85A	Belt Driven	ES4024	08-15657	**$952.00**
24V/85A	Belt Driven	ES4024	08-15658	**$952.00**

HARTZELL ENGINE TECHNOLOGIES ES-6012-6 ALTERNATOR - FACTORY NEW

ES-6012-6 - 12V/60A Belt Driven alternator created for six-cylinder Continental engines. This unit is based on the highly reliable, field proven 100A ES-10024 and extensive certification testing has demonstrated a marked increase in efficiency and performance compared to the legacy Continental Crittenden unit it replaces. Aside from the improvement in reliability, two additional advantages offered by this alternator is that owner/pilots will really appreciate are improvements both in cut-in and idle speed performance – with over double the power output at idle!

Benefits of the new HET ES-6012-6 alternator include:
- Dramatically increased reliability and estimated MTBF compared to legacy Crittenden alternators
- Overall efficiency increased by six to 10% over the entire operating range, resulting in lower operating temperatures

P/N 08-15659 .... **$790.00**

HARTZELL ENGINE TECHNOLOGIES ES-6024D ALTERNATOR

This unit is based on the highly reliable, field proven 100A ES-10024 and extensive certification testing has demonstrated a marked increase in efficiency and performance compared to the legacy Continental Crittenden unit it replaces. Aside from the improvement in reliability, two additional advantages offered by this alternator is that owner/pilots will really appreciate are improvements both in cut-in and idle speed performance – with over double the power output at idle!

Benefits of the new HET ES-6024D alternator include:
- Dramatically increased reliability and estimated MTBF compared to legacy Crittenden alternators
- Overall efficiency increased by six to 10% over the entire operating range, resulting in lower operating temperatures
- Output at engine idle speed more than doubled to ~23A.

The ES-6024D alternator has been FAA PMA certified as a direct replacement for the 60A Continental Crittenden alternator on Continental -520 and -550 series engines. It replaces Continental alternator models 646843, 646490 and 642055 found on various twin Cessnas, Beechcraft Bonanzas and Barons, early pre-glass panel Cirrus SR-22s, and the Cessna TTx-series aircraft including early Corvalis and Columbia models. P/N 07-18097 .... **$1,139.00**

EP

HARTZELL ENGINE TECHNOLOGIES ES-10024 AIRCRAFT ALTERNATOR - FACTORY NEW

Introducing the brand new ES-10024 28volt / 100amp aircraft alternator. The ES-10024 alternator is a direct replacement for TCM part number 656802. The ES-10024 is a field proven design that has been in use for over 5 years with thousands of alternators operating on the world's top selling aircraft. Prestolite Style - FAA/PMA Approved. Lightweight, cost effective, 2 yr. warranty.

Model Number	Volt/Amp	Drive	Replaces	Part Number	Price
ES-10024V-2	24V/100A	--	--	08-15651	**$1,472.00**
ES-10024B-6	24V/100A	Belt Driven	Piper 651-756	08-15652	**$1,428.00**

HARTZELL BRUSH HOLDER ASSEMBLY

Hartzell has designed a new two piece brush holder which is superior in construction and designed to ease both installation and removal during routine maintenance. These new brush holders are offered as a product improvement and are considered an alternate but will supersede the current brush holder assembly as field stock is depleted.

Recommended Alternators: Any aircraft utilizing ALE, ALH, ALT, ALU, ALX, ALY and ALZ series alternators. P/N 08-13833 .... **$102.75**

ALE-1013AS FAA/PMA BRUSH SET

Brush set. ALE-1013AS FAA/PMA approval.

P/N 07-00963 .... **$19.50**

ALTERNATOR DRIVE COUPLINGS

Overhauled alternator drive couplings for the gear driven TCM alternators.

Additional core charge added to purchase at time of checkout

Part No. 646655R
Applicable to engine models:
IO-520, TS10-520, 10-550, GTS10-520
P/N 07-00641..................**$575.00**

Part No. 635796R
Applicable to engine models:
C-75, C-85, C-90, C-115, C-125, C-145, E-165, E-185, E-225, O-200, O-300, GO-300, GIO-300, IO-240, IO-360, TS10-360, & LTS10-360
P/N 07-00642..................**$575.00**

AL Series

ES4000 Series

ES4020 Series

HARTZELL ENGINE TECH. NEW ALTERNATORS

As the OEM, Hartzell offers factory new alternators engineered specifically to meet the challenges and increased demands of today's aircraft electrical systems. Each unit is aviation designed & developed, no automotive parts used. For decades our alternators have been powering Lycoming/Continental engines with unmatched performance and reliability. No Core charges.

AL SERIES ALTERNATOR - Prestolite Style - FAA/PMA Approved.

Model No.	Volts/Amps	Description	Part No.	Price
ALT8520	24V/50A	Belt Driven	08-07122	**$734.00**
ALT8521	24V/50A	Belt Driven	08-07123	**$773.00**
ALT8521LS	24V/50A	Belt Driven	08-07124	**$773.00**
ALT9522	24V/50A	Gear Driven	08-07125	**$754.00**
ALU-6526	24V/60A	Belt Driven	07-19276	**$709.00**
ALX-6526	12V/70A	Belt Driven	07-19277	**$753.00**
ALU6521 LS	24V/70A	Belt Driven	08-07126	**$754.00**
ALU8521	24V/70A	Belt Driven	08-07127	**$775.00**
ALU8521 LS	24V/70A	Belt Driven	08-07128	**$779.00**
ALU8532 LS	24V/70A	Belt Driven	08-07129	**$824.00**
ALX8521	12V/70A	Belt Driven	08-07130	**$770.00**
ALX8521LS	12V/70A	Belt Driven	08-07131	**$768.00**
ALX8523	12V/70A	Belt Driven	08-07132	**$772.00**
ALU-6536-3	25V/175A	--	08-15649	**$1,033.00**
ALU-6539-4	25V/175A	--	08-15650	**$1,060.00**
ALX9524	12V/70A	Gear Driven	08-07133	**$763.00**
ALX9525B	12V/70A	Gear Driven	08-07134	**$773.00**
ALY9524	12V/60A	Belt Driven	08-07135	**$769.00**
ALY6527	12V/60A	Belt Driven	08-07136	**$793.00**
ALU-6526	24V/60A	Belt Driven	07-19276	**$709.00**
ALX-6526	12V/70A	Belt Driven	07-19277	**$753.00**
ALY8520	12V/60A	Belt Driven	08-07137	**$769.00**
ALY8520LS	12V/60A	Belt Driven	08-07138	**$753.00**

ES4000 SERIES ALTERNATOR - Ford Style - FAA/PMA Approved

Model No.	Volts/Amps	Description	Part No.	Price
ES4000	15V/60A	Belt Driven	08-07139	**$651.00**
ES400LS	15V/60A	Belt Driven	08-07140	**$541.00**
ES4001	15V/60A	Gear Driven	08-07141	**$766.00**
ES4002	15V/80A	Gear Driven	08-07142	**$876.00**
ES4003	15V/95A	Belt Driven	08-07143	**$862.00**
ES4004	28V/38A	Gear Driven	08-07144	**$824.00**
ES4006	28V/60A	Gear Driven	08-07145	**$811.00**
ES4008	28V/70A	Gear Driven	08-07146	**$924.00**
ES4009	28V/70A	Belt Driven	08-07147	**$700.00**
ES4011	28V/95A	Belt Driven	08-07148	**$825.00**
ES4019LS	28V/130A	Belt Driven	08-07149	**$1,146.00**
ES4017	28V/90A	Belt Driven	08-15654	**$629.00**
ES4011LS	15V/80A	Belt Driven	08-15653	**$863.00**
ES40193LS	28V/130A	Belt Driven	08-15655	**$1,059.00**

ES4020 SERIES ALTERNATOR - Chrysler Style - FAA/PMA Approved

Model No.	Volts/Amps	Description	Part No.	Price
ES4020	14V/90A	Belt Driven	08-07150	**$726.00**
ES4029	28V/70A	Gear Driven	08-07151	**$895.00**

HARTZELL ALV-9610 ALTERNATOR

Lighter, Tougher, and Proven! Introducing the brand new ALV-9610. The ALV-9610 alternator is a direct replacement for gear driven heavyweight alternators on the Continental 520 & 550 engines. Weighing under 13 lbs., the ALV-9610 is up to 9 lbs. lighter than current heavyweight options. The ALV-9610 is a field proven design that has been in use for over 5 years with thousands of alternators operating on the world's top selling aircraft. FAA/PMA Approved.

See Service Bulletin Document on our website regarding coupling SB11-3

Features:
- Up to 9.6 lbs. weight savings (per engine)
- OEM Direct Replacement
- More power at engine cruise
- Built in noise cancellation
- Rugged design for extreme conditions
- More economical than overhauled units
- Two year warranty

Specifications:
- 28 Volt / 100 Amp Prestolite Style
- Max Continuous Oper. Speed: 10000 rpm
- Type Drive: Gear
- Min. Speed for Regulation: 2400 rpm
- Max. Operating Altitude: 35000 rpm
- Weight: 12 lbs.
- Rotation: Bi-Directional
- Replaces TCM part numbers: 642056, 646491, 646842, 649304, as well as ALV-................ 9510.

P/N 08-07442.......... **$966.00**

HARTZELL ES7024-14 ALTERNATOR

Hartzell Lightweight Alternator ES7024-14, for experimental use. 28 Volt, 70 Amps. Weight: 7 lbs.

Replaces TCM part number 657199.

Features:
- All aircraft quality parts, no automotive parts
- High altitude brushes
- High speed bearings
- High temperature varnish on rotor and stator
- No modifications necessary for Retro-fit into any existing Ford style applications
- Two year warranty

P/N 08-07444........... **$782.00**

HARTZELL ES10024 ALTERNATOR

Introducing the brand new ES-10024 28volt / 100amp aircraft alternator. The ES-10024 alternator is a direct replacement for TCM part number 656802.

The ES-10024 is a field proven design that has been in use for over 5 years with thousands of alternators operating on the world's top selling aircraft.

Prestolite Style - FAA/PMA Approved.

Lightweight, cost effective, 2 yr. warranty.

Features:
- Up to 9.6 lbs. weight savings (per engine)
- OEM Direct Replacement
- More power at engine cruise
- Built in noise cancellation
- Rugged design for extreme conditions
- More economical than overhauled units
- Two year warranty

Specifications
- 28 Volt / 100 Amp Prestolite Style
- Replaces TCM part number 656802

P/N 08-07443........**$1,214.00**

EP

NEW HARTZELL ASG SERIES ALTERNATOR

ASG Series alternators were originally developed by Aero Electric and are OEM on several Cessna applications and PMA replacements for out-of-production 24V Ford alternators. The ASG aircraft alternator designs incorporated several improvements over the Ford alternators they replaced.

Model Number	Product & Application Information	Part Number	Price
ASG10001-13-PMA	60A/28V, Small Frame Ford mount eligible to replace Cessna/Ford alternators used on several legacy 28V single engine Cessnas, including 152, 172, 177, 180, 128, 206 and 207. Replaces Ford DOFF10300B (Cessna P/N C611503-0101 and -0102).	07-18003	**$722.00**
ASG10001-17-PMA	60A/28V, Small Frame Ford mount used on Cessna 172R, 172S, 182S and 182T, as well as being eligible to replace Cessna/Ford alternators on legacy 28V, 188 and 207 model Cessnas. Replaces Ford DOFF10300B (Cessna P/N 1570213-7) and Cessna P/N 9910591-5 and -11	07-18004	**$632.00**
ASG10001-18-PMA	60A/28V, Small Frame Ford mount used on Cessna 206H, T206H. Replaces Cessna P/N 9910591-6 and -12	07-18005	**$650.00**
ASG12000-1-PMA	95A/28V, Large Frame Ford mount is eligible on many 28V legacy piston engine Cessnas, including: 182, R182, T182, TR182, A188, T188, U206, TU206, 207, T207, 210, T210, P210, and T303. Replaces Ford E3FF10300AA (Cessna P/N C611505-0102) and Cessna P/N 9910592-1.	07-18006	**$877.00**
ASG12000-2-PMA	95A/28V, Large Frame Ford mount used on all Cessna 208s. Replaces Cessna P/N C611505-0201 and 9910592-2.	07-18007	**$940.00**
ASG12000-3-PMA	95A/28V, Large Frame Ford mount used on Cessna 182S, 182T, T182T, 206H, T206H with 95A option. Replaces Cessna P/N 9910592-3.	07-18008	**$852.00**

EP

OVERHAULED HARTZELL ASG SERIES ALTERNATOR

ASG Series alternators were originally developed by Aero Electric and are OEM on several Cessna applications and PMA replacements for out-of-production 24V Ford alternators. The ASG aircraft alternator designs incorporated several improvements over the Ford alternators they replaced.

Additional core charge added to purchase at time of purchase.

Model Number	Product & Application Information	Acceptable Cores	Part Number	Price
ASG10001-13R	60A/28V, Small Frame Ford mount eligible to replace Cessna/Ford alternators used on several legacy 28V single engine Cessnas, including 152, 172, 177, 180, 128, 206 and 207. Replaces Ford DOFF10300B (Cessna P/N C611503-0101 and -0102).	C611503-0101 & -0102	07-18003-1	**$395.00**
ASG10001-17R	60A/28V, Small Frame Ford mount used on Cessna 172R, 172S, 182S and 182T, as well as being eligible to replace Cessna/Ford alternators on legacy 28V, 188 and 207 model Cessnas. Replaces Ford DOFF10300B (Cessna P/N 1570213-7) and Cessna P/N 9910591-5 and -11	1570213-7, 9910591-5 & -11	07-18004-1	**$373.00**
ASG10001-18R	60A/28V, Small Frame Ford mount used on Cessna 206H, T206H. Replaces Cessna P/N 9910591-6 and -12	99105916 & -12	07-18005-1	**$395.00**
ASG12000-1R-PMA	95A/28V, Large Frame Ford mount is eligible on many 28V legacy piston engine Cessnas, including: 182, R182, T182, TR182, A188, T188, U206, TU206, 207, T207, 210, T210, P210, and T303. Replaces Ford E3F-F10300AA (Cessna P/N C611505-0102) and Cessna P/N 9910592-1.	C611505-0102 & 9910592-1	07-18006-1	**$710.00**
ASG12000-2R-PMA	95A/28V, Large Frame Ford mount used on all Cessna 208s. Replaces Cessna P/N C611505-0201 and 9910592-2.	C611505-0201 & 9910592-2	07-18007-1	**$735.00**
ASG12000-3R-PMA	95A/28V, Large Frame Ford mount used on Cessna 182S, 182T, T182T, 206H, T206H with 95A option. Replaces Cessna P/N 9910592-3.	9910592-3	07-18008-1	**$668.00**

HARTZELL REPLACEMENT PARTS

For a complete listing of Hartzell Starters, Alternators, Turbochargers, Brush Sets, Bolts, Rotors, O-Rings, Bearings, Housings, Screws, Washers, Nuts, Seals, and other replacement parts, please see our website at

WWW.AIRCRAFTSPRUCE.COM

HARTZELL TURBOCHARGERS/ALTERNATOR KITS

Hartzell (HET) is constantly expanding their product lines to meet the ever changing needs of the aviation industry. Their purchase of the RAJAY and Garrett turbochargers, pressure relief valves, wastegates, and controllers makes the your best choice for both new and rebuilt turbocharging systems for all the general aviation aircraft flying today. Factory New, OEM Approved. Rebuilt to Factory New Tolerances. Performance alloys that resist cracking 18 month unlimited hours warranty

HARTZELL TURBOCHARGER

FACTORY NEW TURBOCHARGERS			
Model	Description	Part No.	Price
406610-0005	Turbocharger Assembly; Replaces Cessna C295001-0101	07-02644	$3,329.00
406610-0018	Turbocharger Assembly; Replaces Cessna C295001-0103	07-18099	$2,750.00
406610-0019	Turbocharger Assembly; Replaces CMI 632729-10	07-18100	$3,097.00
406610-0020	Turbocharger Assembly; Replaces Lyc LW-12689	07-18101	$3,135.00
406610-0021	Turbocharger Assembly; Replaces Lyc LW-12950	07-02646	$3,441.00
406610-0025	Turbocharger Assembly; Replaces CMI 632729-11	07-18102	$3,111.00
406610-0026	Turbocharger Assembly; Replaces Lyc LW-15749	07-18103	$3,142.00
406610-0028	Turbocharger Assembly; Replaces CMI 632729-12	07-02380	$3,329.00
406610-0029	Turbocharger Assembly; Replaces CMI 632729-13	07-02381	$3,329.00
406610-0030	Turbocharger Assembly; Replaces Cessna C295001-0501	07-18104	$3,112.00
406610-0031	Turbocharger Assembly; Replaces Lyc LW-19330	07-02654	$3,329.00
407810-0001	Turbocharger Assembly; Replaces CMI 635630	07-18105	$3,275.00
409170-0001	Turbocharger Assembly; Replaces Lyc LW-12463	07-18106	$3,331.00
409680-0011	Turbocharger Assembly; Replaces CMI 640327-11	07-02383	$4,269.00
465292-0004	Turbocharger Assembly; Replaces CMI 642518-4	07-18107	$2,145.00
465680-0004	Turbocharger Assembly; Replaces Cessna C295001-0202	07-02387	$4,165.00
465930-0002	Turbocharger Assembly; Replaces CMI 641672-2	07-18108	$3,535.00
465930-0003	Turbocharger Assembly; Replaces CMI 641672-3	07-18109	$3,434.00
466011-0002	Turbocharger Assembly; Replaces Lyc 46C19836	07-02261	$848.00
466304-0003	Turbocharger Assembly; Replaces CMI 646677	07-18110	$2,969.00
466642-0001	Turbocharger Assembly; Replaces CMI 649151-1	07-18111	$2,462.00
466642-0002	Turbocharger Assembly; Replaces CMI 649151-2	07-18112	$2,314.00
466642-0005	Turbocharger Assembly; Replaces Lyc 46C19839	07-02664	$3,013.00
466642-0006	Turbocharger Assembly; Replaces Lyc 46C22924	07-18113	$2,949.00

SEE OUR WEBSITE FOR A COMPLETE LIST OF TURBOCHARGERS

FACTORY NEW TURBOCHARGERS CONT.			
466881-0001	Turbocharger Assembly; Replaces Lyc 46P22250	07-18114	$3,983.00
CF600572-0000	Turbocharger Assembly; Replaces Roto-Master 600572-0000	07-02386	$4,098.00
CF600573-0000	Turbocharger Assembly; Replaces Roto-Master 600573-0000, CMI 646396	07-02385	$4,141.00
CF600574-0001	Turbocharger Assembly; Replaces Roto-Master 600574-0001	07-18115	$3,412.00
CF600574-0002	Turbocharger Assembly; Replaces Roto-Master 600574-0002	07-18116	$2,512.00
CF600575-0001	Turbocharger Assembly; Replaces Roto-Master 600575-0000	07-18117	$3,306.00
CF600575-0002	Turbocharger Assembly; Replaces Roto-Master 600575-0002	07-18118	$3,306.00
CF600576-0000	Turbocharger Assembly; Replaces Roto-Master 600576-0000	07-18119	$3,812.00

HARTZELL WASTEGATES AND VALVE ASSEMBLIES

Description	Part Number	Price
470842-9003 Hartzell Wastegate	07-02676	$1,899.00
470944-9022 Hartzell Valve Assembly	07-02678	$769.00
470944-9029 Hartzell Valve Assembly	07-02679	$1,325.00
470944-9034 Hartzell Valve Assembly	07-02680	$869.00

HARTZELL TURBO REPLACEMENT PARTS

Description	Part Number	Price
400705-0000 Hartz Pin Spring	07-02683	$1.60
400805-0205 Hartz Bolt Hex Head	07-02684	$0.86
400806-0203 Hartz Bolt	07-02685	$11.80
407169-0006 Hartz Turbine Housing	07-02689	$1,452.00
408049-0002 Hartz Piston Ring	07-02690	$6.80
408994-0005 Hartz Comp Wheel - Gar	07-02691	$607.00
409752-0064 Hartz Turbine Housing	07-02692	$1,159.00
441083-0001 Hartz Lockplate	07-02694	$10.50
441977-0025 Hartz Center Housing	07-02695	$2,727.00
442273-0022 Hartz Turbo Housing	07-02696	$1,017.00
443136-0001 Hartz Clamp	07-02697	$4.40
444205-0001 Hartz Nut	07-02698	$3.75
712494-0001 Hartz Thrust Bearing	07-02699	$47.95
CF600385-0000 Hartz Pipe Plug	07-02702	$34.95
CF600511-0006 Hartz Turbine Housing	07-02706	$1,045.00
92203 18mm Grommet	08-92203	$13.75
Bendix Pin	07-01222	$2.85

HARTZELL OVERHAULED ALTERNATOR KITS

Model No.	Description	Part No.	Price
90-3032	For ALE-6406,G; ALE-6420,G; ALE-6520; ALE-8105A; ALE-8406,G; ALE-8408; ALE-8420,G; ALE-8421; ALE-8520; ALE-8521	07-01684	$290.95
90-3035	For ALT-8403; ALT-8404; ALT-8404LS; ALT-8407; ALT-8420; ALT-8421; ALT-8421LS; ALT-8520; ALT-8521; ALT-8521LS	07-01687	$212.95
90-3036	For ALT-9405; ALT-9422; ALT-9522	07-01688	$186.90
90-3037	For ALU-6421LS; ALU-6521LS; ALU-8403; ALU-8403LS; ALU-8421LS; ALU-8521; ALU-8521LS	07-01689	$208.95
90-3038	For ALU-9404L; ALU-9422L; ALU-9522	07-01690	$192.75
90-3039	For ALV-6403LS; ALV-8402,L; ALV-8511; ALV-8512	07-01691	$336.00
90-3040	For ALV-9401; ALV-9401L; ALV-9405L; ALV-9407, S	07-01692	$203.95
90-3042	For ALV-9510	07-01694	$326.00
90-3044	For ALX-8403,G,R,RG; ALX-8403LS,RS,LSG,RSG; ALX-8421,G,R,RG; ALX-8421LS,RS,LSG,RSG; ALX-8521; ALX-8521LS	07-01696	$208.95
90-3045	For ALX-9404	07-01697	$179.80
90-3046	For ALX-9404L,LG,R,RG; ALX-9422L,LG,R,RG; ALX-9424; ALX-9522; ALX-9524	07-01493	$194.75
90-3048	For ALY-6403,G; ALY-6406,G; ALY-6420,G; ALY-6427,G; ALY-6520,G; ALY-6520LS; ALY-6527,G; ALY-8403,G; ALY-8403LS,G; ALY-8410; ALY-8420,G; ALY-8420LS, G; ALY-8423; ALY-8520; ALY-8520LS	07-01495	$209.95
90-3049	For ALY-6408; ALY-6409; ALY-6412; ALY-6421; ALY-6422; ALY-6425; ALY-6521; ALY-6522; ALY-6525; ALY-8402; ALY-8405,G; ALY-8411; ALY-8424; ALY-8426,G; ALY-8523; ALY-8524; ALY-8526	07-01496	$179.75
90-3052	For ES4020	07-01498	$280.95
90-3053	For ES4000; ES4000LS; ES4005; ES4005-2; ES4007; ES4009; ES4009LS; ES4013; ES4013LS; ES4017; ES4018; ES4018LS; ES4023; ES4024; ES4030; ES4031; ES4040	07-01499	$144.99
90-3054	For ES4021; ES4024L; ES4024LP	07-01501	$146.75
90-3055	ES4003; ES4003LS; ES4011; ES4011LS; ES4011-1; ES4011-1LS; ES4014; ES4016; ES4019; ES4019LS; ES4019-2LS; ES4022	07-01502	$421.00
90-3056	For ES4001; ES4002; ES4004; ES4006; ES4008; ES4028; ES4029	07-01503	$125.75
90-3057	For 4111810R	07-01504	$228.95
90-3058	For DOFF10300B; DOFF10300J; EOFF10300BA; E3FF10300BA	07-01505	$125.75
90-3059	For DOFF1030D; DOFF10300E; DOFF10300F	07-01506	$130.75
90-3060	For EOFF10300AA; E3FF10300AA	07-01507	$197.75

HARTZELL STARTER OVERHAUL KITS

After consulting with industry operators, owners and flight schools, it was recognized that downtime is critical in this economy and there is a need to minimize downtime and costs when repairing or replacing Lycoming and Continental starters.

These overhaul kits include all parts necessary for a normal major overhaul, as well as any special tools, lubricants, and thread compounds. In addition, a complete digital Overhaul and Parts manual is included.

The model specific kits cover all starters manufactured by Lamar Technologies/Hartzell in eight different kits. The overhaul manual has been rewritten to highlight tear down and assembly with detailed drawings and instructions. The manual covers all aspects of the rebuild in easily understood steps with tech support just a call or email away. Average time to do a complete overhaul can be accomplished in less than an hour reducing downtime and increase revenue, as well as maintain the quality standards of the maintenance organization.

Description	Part No.	Price
PM1201-OHK - Fits all PM1201/1202 starters	07-01269-1	**$293.95**
PM1203-OHK - Fits all PM1203 starters	07-01270-1	**$302.00**
PM1204-OHK - Fits all PM1204 starters	08-06007-1	**$302.00**
PM2401-OHK - Fits all PM2401/2402 starters	07-01272-1	**$287.95**
PM2403-OHK - Fits all PM2403 starters	07-01273-1	**$296.95**
PM2404-OHK - Fits all PM2404 starters	08-06009-1	**$309.00**
LT-EBB-131A Starter Drive Kit, Lycoming 149T fits all 01 starters	07-01180	**$101.85**
LT-EBB-124A Starter Drive Kit, Lycoming 122T fits all 03 starters	07-01858	**$112.75**
LT-EBB-142A Starter Drive Kit, Lycoming 149T, left hand Rotation fits all 04 starters	07-01899	**$115.75**
OHK-0001 Kit , Tools, OHK, Lycoming fits all OH kits	07-01901	**$41.50**
OHK-0002 Kit, Planetary Gears, 3 ea. Fits all Lycoming starters	07-01902	**$36.50**
OHK-003 Kit, Thru Bolt and Anchor Ring #10 fits all Lycoming starters	07-01903	**$124.75**
OHK-0004 Kit, Brush Assembly, 12V pos. fits all 12 volt starters	07-01904	**$167.75**
OHK-0005 Kit, Brush Assembly, 12V neg fits all 12 volt starters	07-01905	**$165.75**
OHK-0006 Kit, Brush Assembly, 24V pos. fits all 24 volt starters	07-01906	**$164.75**
OHK-0007 Kit, Brush Assembly, 24V neg fits all 24 volt starters	07-01907	**$165.90**
OHK-0008 Kit, Brush Bracket & Spring fits all starters	07-01908	**$23.50**
OHK-0009 Kit, Hardware, Starter, Lycoming	07-01909	**$25.50**
OHK-0010 Kit, Fasteners, Starter, Lycoming	07-01910	**$20.65**
Accessories		
Description	**Part No.**	**Price**
2305002 Armature, 12V, Lycoming	07-01911	**$148.75**
5005001 Assy, Starter Nose	07-01914	**$310.00**
9301004-F 12/24V Starter Bearing OH Kit	07-01183	**$106.95**
5101002 Support, Intermediate, Shaft	07-01915	**$70.75**
5201003 Case, Motor, Lycoming	07-01916	**$82.00**
5301001 End Bell	07-01917	**$38.85**
5401001 Shield Grease	07-01918	**$9.95**
6301003 Label, Starter Drive Maintenance	07-01919	**$2.57**
7801008 Washer, Wave	07-01920	**$4.40**
9005001 Assy, Flux Ring, Lycoming, Complete	07-01921	**$348.00**

EP

FALCON CHRYSLER ALTERNATORS

Chrysler series 12 volt alternators are available in 37, 40 and 60 amp versions. Common part numbers are 2642996, 2642997, 3656623, 3656624, and 4111810.

Model No.	Description	Part Number	Price
2098615	12V/37A B	08-10682	**$293.95**
2098640	12V/37A B	08-10683	**$294.95**
2642197	12V/60A B	08-10684	**$293.95**
2642210	12V/60A B	08-10685	**$294.95**
2642995	12V/37A B	08-10686	**$296.95**
2642997	12V/60A B	08-10687	**$295.00**
4111810	12V/60A B	08-10689	**$299.95**

PMA APPROVED ALTERNATOR REPLACEMENTS

Plane-Power Certified Alternators are PMA certified to replace any existing alternator in the aircraft and engine applications listed below. No STC paperwork required. All Plane-Power PMA alternators produce up to 70 amps. Your airframe/application may use only a portion of the available output as limited by the aircraft electrical system components and design. Every Plane-Power alternator is tested to exceed all quality and performance specifications. Plane-Power PowerFlex Voltage Regulators are also available separately.

Model	Brackets included	Part No.	Price
AL12-F60	No	07-00998	**$515.00**
AL24-F60	Yes	07-00999	**$529.00**
AL12-F60C	No	07-01256	**$495.00**
AL24-F60C	No	07-01257	**$529.00**
AL24-FS60	No	07-01491	**$597.00**
AL12-P70	No	07-01001	**$529.00**
AL24-P70	No	07-01002	**$549.00**
AL12-70	Yes	07-01258	**$619.00**
AL24-70	Yes	07-01259	**$609.00**
C28-150	N/A	07-01838	**$1,417.00**

American Champion	OEM Part #	Model #
7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	ALY-8420	AL12-P70
Beechcraft	**OEM Part #**	**Model #**
19A, B19, M19A, 23, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R	33-380009-1	AL12-F60
19A, B19, M19A, 23, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R	ALE-8105A / ALE-8406	AL12-P70
76 Duchess, 77Skipper	ALY-8420	AL12-P70
76 Duchess	ALU-8421	AL24-P70
B19, C19, C24R	ALU-8421R	AL24-P70
Cessna	**OEM Part #**	**Model #**
177, 177A, 177B	C611501-0101	AL12-F60
172I, K, L, M, N, P, 177, 177A, 177B, 177RG	C611501-0102	AL12-F60
P206A, P206B, P206C, P206D, P206E, U206, U206A, U206B, U206C, U206D, U206E, TP206A, TP206B, TP206C, TP206D, TP206E, TU206B, TU206C, TU206E, 207, T207, 210B, 210C, 210D, 210E, 210F, T210F, T210G, T210H, T210J	C611501-0101	AL12-F60C
180H, 180J, 180K, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 185E, A185F, 188, P206C, U206C, U206D, U206E, U206F, U206G, TP206C, TU206B, TU206C, TU206E, TU206F, TU206G, 207, T207	C611501-0102	AL12-F60C
180H, 182G, 182H, 185D, 210E	0750217-1	AL12-F60C
188, A188, A188A, A188B, 210K, T210K, 210G, 210H	1570213-6	AL12-F60C
152, A152, 172M, 172N, 172P, 172Q, 172RG, 177B, 177RG, R182, TR182	C611503-0102	AL24-F60
180J, 180K, 182P, 182Q, 182R, T182, U206E, U206F, U206G, TU206E, TU206F, TU206G, 207, T207, 210K, 210L, 210M, 210N, 210R, P210N, P210R, T210K, T210L, T210M, T210N, T210R, A185F, 207A, T207A	C611503-0102	AL24-F60C
188, 188A, 188B, A188, A188A, A188B, T188C, 207, T207	1570213-7	AL24-F60C
172R, 172S, 182S*, 182T*, T182T*	9910591-5	AL24-FS60
*S/N182001(1997) through 18281197(2004)	9910591-11	AL24-FS60
Commander	**OEM Part #**	**Model #**
112, 112B, 112TC, 112TCA, 114, 114A, 114B, 114TC	LW14316	AL12-P70

Twin Commander Aircraft Corporation	OEM Part #	Model #
500-S	78314	AL24-P70
Diamond Aircraft Industries GmbH	**OEM Part #**	**Model #**
DA-40	ALU-8421LS	AL24-70*
Grumman (Gulfstream, Tiger)	**OEM Part #**	**Model #**
AA-1, AA-1A, AA-1B, AA-1C	ALE-6420 / ALY-6420 LW-14310	AL12-P70
AA-5, AA-5A, AA-5B, AG-5B, GA-7	DOFF-10300J	AL12-F60
AG-5B	ALU8421LS	AL24-P70
Mooney	**OEM Part #**	**Model #**
M20C, M20E, M20F, M20G, M20J	ALY-8420 / ALX-8403	AL12-P70
Mooney (cont.)	**OEM Part #**	**Model #**
M20J	ALU6421LS	AL24-P70
M20M (Single alternator installations only)	ES-4009LS	AL24-P70
Piper (Without Airconditioning)	**OEM Part #**	**Model #**
PA-44-180, PA-44-180T	751 346	AL12-P70
PA-28-151, PA-32R-301 (SP), PA-32-301T, PA-32R, 301(HP), PA-32R-301T (SP), PA-32-301, PA-34-200, PA-38-112	551-984	AL12-P70
PA-24-260	ALX8403	AL12-70
PA-23-235, PA-23-250	ALX8403	AL12-P70
PA-23-235, PA-23-250	ALU-8403	AL24-P70
PA-44-180, PA-44-180T	ALX8421LS	AL12-P70
PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-180, PA-28-235, PA-28R-180, PA-28R-200, PA-32-260, PA-32-300, PA-32R-300	69670-00 (60 amp)	AL12-C60
PA-28-140, PA-28-151, PA-28-161, PA-28-180, PA-28-235, PA-28R-200, PA-32-300, PA-32R-300	69670-03 (60 amp)	AL12-C60
PA-28-151, PA-28-161, PA-28-181, PA-28-236, PA-28R-201, PA-28RT-201, PA-32-300, PA-32R-300, PA-32RT-300, PA-32RT-300T	69670-04 (60 amp)	AL12-C60
Vulcanair, S.P.A	**OEM Part #**	**Model #**
P68, P68B, P68C, P68C-TC, P68 "OBSERVER", P68TC "OBSERVER", P68 "OBSERVER 2"	ALU-8421LS	AL24-P70

For Lycoming engines 235, 320, 360, 540, 720 and Superior engines O-360, IO-360, Plane-Power alternators AL12-P70, AL12-70*, and AL24-70* replace Lycoming and Superior certified 70amp alternators: LW14300, LW14302, LW14308, LW14310, LW14316, LW14319, LW14322, LW14324. *Comes with all new Plane-Power mounting brackets and hardware.

PLANE POWER LIGHTWEIGHT C14-100 ALTERNATOR

The Plane Power alternator can produce all 100 amps if proper size wiring, ammeter and circuit breaker are installed and approved. PMA replacement, requires only a log book entry. Aircraft electrical system will be limited by existing wiring and output circuit breaker. Weight: 13 Pounds. Warranty: 2-Year Limited. 14 volt, 100 amp alternator. Replaces Hartzell/Kelly, Crittenden, TCM 50 – 100amp alternators on TCM 520 and 550 Series engines. See www.aircraftspruce.com for complete application chart. P/N 07-01948 .... **$1,391.00**

ALT FLX UNIVERSAL LIGHTWEIGHT STC ALTERNATOR

The ALT FLX 100 Amps (14V)/150 Amps (28 V) at 12.5 pounds is precision balanced with dual internal cooling fans, built in noise filter and provides 70 Amps at engine idle speeds. This externally regulated alternator is a direct DOFF series alternator replacement and the STC allows for generator to alternator conversion. It is available for STC installation on most aircraft and helicopters. Optional Lycoming and Continental mounting kits are available along with multi-groove and v-belt pulleys.

Accessories/Options	Part No.	Price
Plane-power Flx Lyc Case Mount Install Kit	07-02462	**$141.75**
Accessories/Options	**Part No.**	**Price**
Plane-power Flx Lyc Boss Mount Install Kit	07-02463	**$151.90**
Plane-power Flx Cont Install Kit	07-02464	**$347.00**

Plane-power Flx Install Kit Multi-groove	07-02688	**$139.95**
Plane-Power Lightweight Alternator Bracket	07-17782	**$39.50**

PMA CONTINENTAL ALTERNATOR REPLACEMENT

The C28-150 is PMA FAA eligible on most Continental 520 and 550 Series engines with front mounted gear driven alternators. This Spectacular alternator in addition to providing a continuous 150A at X RPM will deliver 60A at 1000 RPM and weighing only 12.6 lbs! Also available without debris shield sold as model C28-150S. .... P/N 07-01838 .... **$1,417.00**

LIGHTWEIGHT EXPERMENTAL ALTERNATORS

Unlike automotive alternators, all Plane-Power Experimental Alternators are specifically engineered for Airplane Engines and have Dual Internal Fans designed for Airplane Engine Rotation the same as our Certified Alternators. 2 year warranty,

The ***AL12-EI60*** kit comes with an internally regulated ultra compact lightweight AIRCRAFT alternator (6.9 lbs.) with an exclusive internal crowbar over-voltage protection circuit. The alternator is fully pilot controllable through unique internal wiring. The dual internal fans are designed for aircraft engine rotation for maximum cooling. The AL12-EI60 kit includes the tension arm, mounting brackets, required AN hardware. 10 lb. 70amp also available. Also available 70 amp version only 2 additional lbs.

The ***AL12-EI60-L*** , Plane Power's 60A LSA alternator which must be installed in combination with Sky-Tec LSA starter, provides the industry's lightest charging/starting package at 13.2 lbs. for Lycoming's O-233, O-235, O-290, O-320 engines. Sky-tec starter to be purchased separately. Fits engines with 122 tooth ring gear and case mount engines.

The ***EX14-50*** 12/14 volt, 50 amp, internally regulated alternator with built-in Over-Voltage protection for use in EXPERIMENTAL Aircraft with small block Continental Engines. Includes Pre-Wired Enable Plug and Gaskets. Note: Overall Diameter: 4.4", Overall Length: 6". Use your existing drive gear and coupling. New gear and coupling also available separately. Warranty: 2-Year Limited Weight: 6.8 Pounds.

The ***FS1-14 Fly Safe*** back up alternator, internally regulated (13.6 volt +-0.3) with built-in overvoltage protection. Designed for use in experimental aircraft. FS1-14. Features a 30A continuous output, precision internal voltage regulator, fail-safe Over Voltage Protection, Shear Coupling Assembly, 6lbs installed weight, higher level of safety. 2-Year Limited Warranty. Weight: 6 Pounds. 12 volt/30 amp. Also available as a primary unit sold as model FS1-14B.

Model	Output	Voltage	Part No.	Price
AL12-EI60/B (Boss Mount)	60	12	07-01313	**$489.00**
AL12-EI60/C (Case Mount)	60	12	07-01313-1	**$500.00**
AL12-EI70/B (Boss Mount)	70	12	07-01414	**$504.00**
AL12-EI70/C (Case Mount)	70	12	07-01414-1	**$504.00**
AL12-EE70/B (Boss Mount)	70	12	07-01005	**$567.00**
AL24-EE70/B (Boss Mount)	70	24	07-01006	**$570.00**

Model	Output	Voltage	Part No.	Price
AL12-EE70/C (Case Mount)	70	12	07-01005-1	**$569.00**
AL24-EE70/C (Case Mount)	70	24	07-01006-1	**$560.00**
EX14-50	50	12	07-01268	**$665.00**
AL12-EI60-L	60	12	07-01839	**$484.00**
FS1-14 Fly Safe	30	12	07-01857	**$829.00**
FS1-14B	30	14.2	07-01883	**$823.00**

Prices Subject to Change Without Notice

BELT DRIVEN GENERATOR CONVERSIONS

Aircraft Parts & Development	Plane-Power
Intermountain (Callair) A, A-2, A-4, A-5, A-5T, A-9, A-9B	SAL12-70
Alexandria Aircraft, L.L.C.	
Bellanca 14-19-2, 14-19-3, 14-19-3A	SAL12-70C
Cessna Aircraft Co.	
180, 180A, 180B, 180C, 180D, 180E, 180F, 180G,	SAL12-70C
182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H,	SAL12-70C
185, 185A, 185B, 185C, 185D	SAL12-70C
210, 210A, 210-5 (205), 210-5A (205A)	SAL12-70C
206, P206	SAL12-70C
Cessna 310, 310A, 310B, 310C*, 310D*, 310E*, 310F*, 310G, 310H, 310I, 310J, 310K *10-9006 kit may be required for installation. View installation instructions online for further information	TAL24-70C
Fred Garcia	
Camair 480	TAL24-70C
FS 2003 Corporation (Piper)	
Piper PA-12, PA-12S	SAL12-70
Hawker Beechcraft Co.	
Beech H35, J35, K35, M35, N35, P35, 35-33, 35-A33, 35-B33, 35-C33	SAL12-70C
23	SAL12-70
Beech Baron 95-55, 95-A55, 95-B55, 95-B55A	TAL24-70C
Beech Travelair 95, B95, B95A, D95A, E95	TAL24-70
Helio Aircraft, LLC	
Helio H-250	SAL12-70
Helio 500	TAL12-70
KWAD Co.	
Super-V	TAL12-70
Latinoamerican De Aviacion	
Piper PA-25, PA-25-235, PA-35-260	SAL12-70
Lockheed Aircraft Corp.	
402-2	SAL12-70C
Mooney Airplane Company	
M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G	SAL12-70
Piper Aircraft, Inc.	
Piper PA-16, PA-16S	SAL12-70
Piper PA-18, PA-18S, PA-18 "105" (SPECIAL), PA-19S	SAL12-70
PIPER PA-18A, PA-18 "125" (Army L-21A), PA18S "125", PA-18AS "125", PA-18 "135" (Army L-21B), PA18A "135", PA-18S "135", PA-18AS "135", PA-18 "150", PA-18A "150", PA18S "150", PA-18AS '150", PA-19 (Army L-18C), PA-20, PA-20S, PA-20-"135", PA-22, PA-22-135, PA-22S-135, PA-22-150, PA-22S-150, PA-22-160, PA-22S-160 (When modified with FAA Approved rear mounted oil cooler)	SAL12-70
Piper PA-20-"115", PA-205-"115"	SAL12-70
Piper PA-22-108	SAL12-70
Piper PA-24, PA-24-250, PA-24-260, PA-24-400	SAL12-70
Piper PA-28-140, PA-28-150, PA-28-160, PA-28-180, PA-28-235, PA-28S-160, PA-28S-180	SAL12-70
Piper PA-23, PA-23-160, PA-23-235, PA-23-250, PA-E23-250	TAL12-70
Piper PA -30	TAL12-70
Prop-Jets Inc.	
Meyers 200, 200A, 200B, 200C, 200D	SAL12-70C
Raytheon Aircraft Co.	
35, A35, B35, C35, D35, E35, F35, G35, 35R, modified by STC conversion to O-470 or IO-470 engine.	SAL12-70C
Revo, Inc.	
Colonial C1, Colonial C2, Lake LA-4, LA-4A, LA-4P	SAL12-70
Sierra Hotel Aero, Inc.	
Navion D, E, F,G, H, and Navion (L-17A), Navion A (L-17-B & L-17C), B modified by STC conversion to O-470 or IO-470	SAL12-70C
Twin Commander Aircraft Corporation	
500A	TAL24-70C
500, 500-B, 500-U	TAL24-70

GEAR DRIVEN GENERATOR CONVERSIONS

Ad Aerospace	Plane-Power
T-211	ER14-50
Aerodifusion	
D-1190S	ER14-50
Aeromca (Burl A. Rogers)	
15AC, S15AC	ER14-50
Aircraft Parts & Development	
A-3	ER14-50
All American	
10A	ER14-50
American Champion	
402, 7EC, 7ECA, 7FC, 7JC, S7EC	ER14-50
Hawker Beechcraft	
35, 35R, 45 (YT-34), A35, B35, C35*, D35*, E35*,F35*, G35*, (*When equipped with E225-8 Engine)	ER14-50
Cessna	
120, 140, 140A, 150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150M, 170, 170A, 170B, 172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H	ER14-50
Commonwealth Aircraft	
185	ER14-50
Edward Scott Kerns	
Trojan A-2	ER14-50
FA 2001	
J5A (Army L-4F) (when equipped with C75-12 Engine)	ER14-50
Swift Museum Foundation	
GC-1A, GC-1B	ER14-50
Goodyear	
GA-22A	ER14-50
Helio Aircraft	
15A (when equipped with C145-2 Engine)	ER14-50
Avion Jodel	
150, D-1190, DR-1050 ER14-50	ER14-50
The Don Luscombe Aviation History Foundation	
8E, 8F, T-8F	ER14-50
Maule Aircraft Company	
BEE DEE M-4, M-4, M-4C, M-14S, M4T, M-4-210, C, S, T, M-5-210C	ER14-50
Thomas H. McClish	
B85C	ER14-50
Micco Aircraft Company	
MAC-125C. MC-145	ER14-50
S.O.C.A.T.A	
(Ralley) Series 100S, Rallye Series MS 880B, Rallye Series	ER14-50
Navion	
(Army L-4),(Army L-17B and L-17C)	ER14-50
Piper	
J3C-35* (Army L-4), L-4A*, L-4B (Navy NE-1*), L-4H*, L-4J*(Navy NE-2*)), J3C-65S*, -4A**, J4E* (Army L-4E), PA-18, PA-19, PA-18S***, PA-19S*** (When equipped with (*C75-12)(**C85-12)(***C90-12F)Engine) PA-28-201T, PA-28R-201T, PA-28RT-201T, PA-34-200T, PA-34-220T	ER14-50
Quartz Mountain Aerospace	
11A	ER14-50
Superior	
(Culver) V, (Culver) V-2	ER14-50
Taylorcraft Aviation	
BC-12D-4-85, BCS12D-4-85	ER14-50
Univair Aircraft	
(Alon) A-2, (Alon) A-2A, (Forney) F-1, (Forney) F-1A, (Mooney) M10, ERCO 415-C*, ERCO 415-CD*, ERCo 415-D, ERCO E, ERCO G, (*When equipped with C75-12, C75-12F, C85-12 or C85-12F Engine)	ER14-50

PLANE POWER CONVERSIONS & REGULATORS

PLANE-POWER LIGHTWEIGHT STC GENERATOR TO ALTERNATOR CONVERSIONS

BELT DRIVEN - Include hardware and brackets to replace your existing generator and regulator. Plane-Power STC Belt Driven Generator Conversions allow for increasing the size of the output wire and circuit breaker to allow for a maximum of 70 amps of output. All Plane-Power alternators feature dual internal fans specially designed for aircraft engine rotation to maximize cooling. Models available for both 12 and 24 volt as well as for both Lycoming and Continental installations.

Model	Output	Voltage	Part No.	Price
SAL12-70	70 (max)	12	07-01301	**$784.00**
SAL12-70C	70 (max)	12	07-01299	**$833.00**
TAL12-70	70 (max)	12	07-01302	**$1,620.00**
TAL24-70	70 (max)	24	07-01304	**$1,673.00**
TAL24-70C	70 (max)	24	07-01303	**$2,095.00**

Mounting Kit for SAL12-70C............P/N 07-03577.............**$333.00**

GEAR DRIVEN - Plane-Power Gear Driven Generator to Alternator Conversion Kits replace your existing generator with an alternator which will provide higher output at lower rpm and allow for increasing the size of the output wire and circuit breaker to allow for a maximum of 50 amps of output. The ER14-50 uses your existing gear assembly. The entire gear assembly (ER14-GR) may be purchased separately. Some older generators have larger diameter (5/8") shafts and require the gear support kit (G-Pack). Please call for details. The ER14-50 weighs 6.9 lbs and comes with a pre-wired enable plug, 50 amp gear driven alternator, alternator inoperative lamp, Seals and R1224B Power-Flex voltage regulator.

Model	Output	Voltage	Part No.	Price
ER14-50	50 (max)	12	07-01321	**$759.00**
Accessories				
Gear Drive designed for use with the ER14-50			07-01348	**$97.85**

PLANE-POWER ALTERNATOR VOLTAGE REGULATORS

R1224

Plane-Power Power-Flex Voltage Regulators are FAA-PMA Approved. Available for most certified aircraft. Solid-state voltage regulators with over-voltage protection, field short (over current) protection, and reverse battery protection. Plane-Power Power-Flex voltage regulators also support precision load sharing for twin applications and an alternator inoperative lamp. Power-Flex voltage regulators are designed to be setup in the field for 14 or 24 volt operation by a simple placement of the two internal jumpers. For smaller mounting placement on the R1224, installation aid 12-1021 may be used.

R1224B

Model	Description	Voltage	Part No.	Price
R1224	Replaces many Ford, Electrodelta, Prestolite, Interav, Wico, and FVR voltage regulators.	14V or 28V	07-01305	**$184.75**
R1224B	Replaces voltage regulators on twin Cessnas, Beechcraft, and Vulcanair .	14V	07-01306	**$184.75**
12-1021	Adapter Plate - Visit our website for a list of common aircraft in need of this adapter.	---	07-03532	**$28.70**

EP

AMBER LIGHT INDICATORS FOR THE HARTZELL ER14-50

14V.......................................P/N 08-14616... **$49.95**
28V.......................................P/N 08-14617... **$58.75**

GEAR ADAPTER KIT G-PACK

Required for use with the existing drive gear when the generator shaft is over 0.5" in diameter. Uses existing gear from replaced generator.

Description	Part No.	Price
Gear Adapter Kit # G-Pack	07-01348	**$97.85**

REPLACEMENT SEAL FOR HARTZELL ER14-50

ER14-50...............................P/N 08-14618.. **$34.50**

PLANE POWER ALTERNATORS ONLY - WITHOUT MOUNTING KIT

Plane-Power alternators are FAA PMA certified to replace the vast majority of popular general aviation alternators. Plane-Power also manufactures an alternator kit for experimental aircraft applications that comes complete with required brackets, spacers, internal cooling, voltage regulation (choice of internal or external), and over-voltage protection. Plane-Power alternators are warrantied for 2-years against component failures.

Volts/Amps	Model	PN	Price
12/70	AL12-70, AL12-P70	07-17755	**$453.00**
12/70	AL12-C60, SAL12-70, TAL12-70	07-17756	**$439.00**
12/70	AL12-F60	07-17757	**$439.00**
12/70	AL12-F60C, SAL12-70C	07-17758	**$439.00**
12/70	AL12-EI60-L, AL12-EI60/B, AL12-EI60/C	07-18016	**$526.00**
24/70	AL24-70P, AL24-70	07-17759	**$458.00**
24/70	AL24-F60	07-17760	**$439.00**
24/70	AL24-FS60	07-17761	**$445.00**
24/70	AL24-F60C, TAL24-70C	07-17762	**$439.00**
24/70	AL12-70, AL12-P70	07-18054	**$439.00**
12/50	ER14-50	07-19404	**$531.00**

PLANE POWER REBUILT FLX ALTERNATOR

Description	Part Number	Price
ALT-FLX-1-FR	07-19187	**$1,376.00**
ALT-FLX-2-FR	07-19188	**$1,698.00**
ALT-FLX-3-FR	07-19189	**$1,528.00**
ALT-FLX-4-FR	07-19190	**$1,563.00**
ALT-FLX-5-FR	07-19191	**$1,392.00**
ALT-FLX-6-FR	07-19192	**$1,655.00**
ALT-FLX-7-FR	07-19193	**$1,528.00**
ALT-FLX-8-FR	07-19194	**$1,393.00**
ALT-FLX-9-FR	07-19195	**$1,291.00**

HARTZELL 10-4099 ALTERNATOR MOUNTING KIT - Hartzell 10-4099 mounting kit for Al12-F60 & Al24-F60 alternators. P/N 07-19371 ....**$160.75**

PLANE POWER LIGHTWEIGHT ALTERNATOR BRACKET 10-1099 - Plane Power Lightweight Alternator Bracket. P/N 07-19416 ....**$173.75**

PLANE POWER C28-150 ALTERNATORS

- Dual cooling fans ensure effective cooling and unmatched durability even in low engine RPM/high output installations.
- Compact size simplifies installation and ongoing inspections.
- FAA-PMA approved, no STC required for installation.

Plane-Power C28-150 line of FAA-PMA certified, 28V/150 Amp high output, gear-driven alternators. These factory-rebuilt units will carry the same two-year warranty offered on every new Plane-Power alternator.

The Plane-Power C28-150 gear-driven alternators deliver more continuous power at lower engine RPMs than any other aircraft alternator. Aircraft owners with high electrical demand during ground operations; such as those with sophisticated avionics suites or electrically-driven air conditioning systems, will appreciate the abundant electrical power they will get at idle with these Plane-Power alternators.

C28-150-FR With Debris Shield ....P/N 07-18127 ....**$1,484.00**
C28-150S-FR without Debris Shield..........P/N 07-18128 ....**$1,445.00**

PLANE POWER C14-100 ALTERNATORS

- Dual cooling fans ensure effective cooling and unmatched durability even in low engine RPM/high output installations.
- Compact size simplifies installation and ongoing inspections.
- FAA-PMA approved, no STC required for installation.

Plane-Power C14-100 line of FAA-PMA certified, 24V/150 Amp high output, gear-driven alternators. These factory-rebuilt units will carry the same two-year warranty offered on every new Plane-Power alternator.

The Plane-Power C14-100 gear-driven alternators deliver more continuous power at lower engine RPMs than any other aircraft alternator. Aircraft owners with high electrical demand during ground operations; such as those with sophisticated avionics suites or electrically-driven air conditioning systems, will appreciate the abundant electrical power they will get at idle with these Plane-Power alternators.

C14-100-FR With Debris Shield ....P/N 07-18125 ....**$1,439.00**
C14-100S-FR without Debris Shield..........P/N 07-18126 ....**$1,445.00**

Prices Subject to Change Without Notice

AEROTECH OVERHAULED ALTERNATORS

Aerotech of Louisville specializes in the overhaul, repair and distribution of general, corporate and military aviation charging and starting system accessories.

AEROTECH CESSNA OVERHAULED ALTERNATORS

Mfr. PN	Volts	Amps	Drive	Part No.	Price	Core
9910591-1	28V	60A	Belt	08-14718	**$369.00**	**$200.00**
9910591-7	28V	60A	Belt	08-14719	**$288.95**	**$200.00**
9910591-11	28V	60A	Belt	08-14720	**$288.95**	**$200.00**
9910591-12	28V	60A	Belt	08-14721	**$287.95**	**$200.00**
9910591-13	28V	60A	Belt	08-14722	**$287.95**	**$200.00**
9910592-1	28V	95A	Belt	08-14723	**$425.00**	**$300.00**
9910592-2	28V	95A	Belt	08-14725	**$426.00**	**$300.00**

AEROTECH TCM OVERHAULED ALTERNATORS

Mfr. PN	Volts	Amps	Drive	Part No.	Price	Core
642055	24V	60A	Gear	08-14726	**$714.00**	**$450.00**
642056	24V	100A	Gear	08-14727	**$714.00**	**$425.00**
646490	24V	60A	Gear	08-14728	**$714.00**	**$450.00**
646491	24V	100A	Gear	08-14729	**$714.00**	**$425.00**
646842	24V	100A	Gear	08-14730	**$714.00**	**$425.00**
649283	24V	70A	Belt	08-14731	**$425.00**	**$200.00**
649304	24V	100A	Gear	08-14732	**$714.00**	**$425.00**
653344	24V	70A	Gear	08-14733	**$483.00**	**$300.00**

AEROTECH CHRYSLER OVERHAULED ALTERNATORS

Mfr. PN	Volts	Amps	Drive	Part No.	Price	Core
2098615	12V	37A	Belt	08-14734	**$337.00**	**$200.00**
2098640	12V	37A	Belt	08-14735	**$337.00**	**$150.00**
2642197	12V	60A	Belt	08-14738	**$337.00**	**$200.00**
2642210	12V	60A	Belt	08-14739	**$432.00**	**$150.00**
2642995	12V	37A	Belt	08-14740	**$337.00**	**$200.00**
2642996	12V	37A	Belt	08-14741	**$337.00**	**$200.00**
3656623	12V	40A	**Belt**	08-14742	**$337.00**	**$200.00**
2642997	12V	60A	**Belt**	08-07034	**$433.00**	**$200.00**

AEROTECH DELCO REMY OVERHAULED ALTERNATORS

Mfr. PN	Volts	Amps	Drive	Part No.	Price	Core
1100652	12V	52A	**Gear**	08-14743	**$337.00**	**$175.00**
1100660	12V	70A	**Belt**	08-14744	**$337.00**	**$175.00**
1100667	12V	70A	**Gear**	08-14745	**$337.00**	**$175.00**
1100715	12V	70A	**Gear**	08-14746	**$338.00**	**$175.00**
1100716	12V	52A	**Gear**	08-14747	**$337.00**	**$175.00**
1100717	12V	70A	**Belt**	08-14748	**$337.00**	**$175.00**
1100718	24V	**50A**	**Belt**	08-14749	**$338.00**	**$175.00**
1100723	24V	**50A**	**Gear**	08-14751	**$337.00**	**$175.00**
1100747	24V	**50A**	**Belt**	**08-14752**	**$432.00**	**$175.00**
1100753	24V	**65A**	**Gear**	**08-14753**	**$432.00**	**$175.00**
1100792	24V	**65A**	**Belt**	**08-14754**	**$432.00**	**$175.00**

AEROTECH ELECTROSYSTEMS OVERHAULED ALTERNATORS

Mfr. PN	Volts	Amps	Drive	Part No.	Price	Core
ALH-5520	12V	55A	Belt	08-14755	**$522.00**	**$175.00**
ALU-8539LS	28V	75A	Belt	08-14756	**$556.00**	**$200.00**
ALY-8523R	12V	60A	Belt	08-14757	**$509.00**	**$225.00**
ALY-8524R	12V	60A	Belt	08-14758	**$508.00**	**$225.00**
ALY-8526R	12V	60A	Belt	08-14760	**$508.00**	**$225.00**
ALZ-8523R	12V	50A	Belt	08-14761	**$508.00**	**$225.00**

AEROTECH FORD OVERHAULED ALTERNATORS

Mfr. PN	Volts	Amps	Drive	Part Number	Price	Core
C6115030103	28V	60A	Belt	08-14763	**$287.95**	**$150.00**
DOFF10300AA	28V	95A	Belt	08-14764	**$544.00**	**$300.00**
DOFF10300A	28V	60A	Belt	08-14765	**$287.95**	**$150.00**
DOFF10300C	28V	60A	Gear	08-14766	**$357.00**	**$200.00**
DOFF10300G	28V	38A	Gear	08-14767	**$357.00**	**$200.00**
DOFF10300H	14V	60A	Gear	08-14768	**$356.00**	**$200.00**
DOFF10300M	14V	60A	Belt	08-14769	**$288.95**	**$150.00**

AEROTECH PRESTOLITE OVERHAULED ALTERNATORS

Mfr. PN	Volts	Amps	Drive	Part Number	Price	Core
ALV-6403	24V	100A	Belt	08-14770	**$815.00**	**$1500.00**
ALV-8402	24V	100A	Belt	08-14771	**$815.00**	**$1500.00**
ALV-8511	24V	100A	Belt	08-14772	**$815.00**	**$1500.00**
ALV-8512	24V	100A	Belt	08-14774	**$815.00**	**$1500.00**
ALV-9401	24V	100A	Gear	08-14773	**$693.00**	**$475.00**
ALV-9405	24V	100A	Gear	08-14775	**$693.00**	**$475.00**
ALV-9406	24V	100A	Gear	08-14776	**$693.00**	**$475.00**
ALV-9407	24V	100A	Gear	08-14777	**$693.00**	**$475.00**
ALV-9510	24V	100A	Gear	08-14779	**$693.00**	**$475.00**

NOTE:
Exchange prices are shown.
Core charges apply to all units.

EP

AEROTECH OVERHAULED GENERATORS

Delco Generators are overhauled using only FAA approved components. In stock or have the capability to overhaul almost every 12 or 24 volt Declo-Remy Aircraft Generator. Each unit is tested to manufacturer's original operating specs before it leaves our facility.
Shipments will include domestic 8130 form.
Attention: Should a core unit not be available in stock with factory; at time of order customer must ship in core to be overhauled.
Ship to: 225 Airport Circle, Corona Ca. 92880

AEROTECH DELCO OVERHAULED GENERATORS

Model No.	Volts	Amps	Drive	Part No.	Price	Core
1101881	12V	13A	Gear	08-14780	**$279.95**	**$125.00**
1101884	24V	15A	Belt	08-14781	**$278.95**	**$150.00**
1101885	12V	36A	Gear	08-14782	**$278.95**	**$200.00**
1101886	12V	26A	Gear	08-14783	**$278.95**	**$200.00**
1101887	12V	35A	Gear	08-14784	**$278.95**	**$200.00**
1101889	24V	15A	Belt	08-14785	**$278.95**	**$150.00**
1101890	12V	20A	Gear	08-14786	**$278.95**	**$200.00**
1101893	24V	15A	Belt	08-14787	**$278.95**	**$150.00**
1101895	12V	50A	Belt	08-14788	**$297.95**	**$150.00**
1101896	12V	20A	Belt	08-14789	**$278.95**	**$150.00**
1101903	24V	15A	Belt	08-14790	**$297.95**	**$150.00**
1101907	24V	25A	Belt	08-14791	**$297.95**	**$175.00**
1101908	12V	50A	Gear	08-14792	**$297.95**	**$200.00**
1101909	12V	50A	Belt	08-14793	**$297.95**	**$150.00**
1101916	24V	15A	Belt	08-14794	**$297.95**	**$150.00**
1101919	12V	20A	Gear	08-14795	**$278.95**	**$200.00**
1101920	24V	25A	Belt	08-14796	**$297.95**	**$150.00**
1101921	24V	15A	Belt	08-14797	**$297.95**	**$150.00**
1101923	15V	50A	Belt	08-14798	**$297.95**	**$150.00**
1105052	24V	40A	Belt	08-14799	**$366.00**	**$250.00**

AEROTECH PRESTOLITE OVERHAULED STARTERS

Model No.	Voltage	Part No.	Price	Core
MCL-6502	12	08-14838	**$519.00**	**$250.00**
MCL-6503	12	08-14839	**$405.00**	**$250.00**
MDB-6101	24	08-14840	**$405.00**	**$200.00**
MHB-4001	24	08-14841	**$405.00**	**$175.00**
MHB-4002	24	08-14842	**$405.00**	**$175.00**
MHB-4003	24	08-14843	**$405.00**	**$175.00**
MHB-4015	24	08-14844	**$385.00**	**$200.00**
MHB-4019A	24	08-14845	**$405.00**	**$175.00**
MHB-4019R	24	08-14846	**$405.00**	**$175.00**
MHB-4020	24	08-14847	**$405.00**	**$175.00**
MHJ-4002	24	08-14848	**$323.00**	**$200.00**
MZ-4203	12	08-14849	**$307.00**	**$175.00**
MZ-4204	12	08-14850	**$307.00**	**$150.00**
MZ-4205	12	08-14851	**$357.00**	**$175.00**
MZ-4206/4222	12	08-14852	**$357.00**	**$175.00**
MZ-4207	12	08-14853	**$357.00**	**$175.00**
MZ-4216	12	08-14854	**$357.00**	**$175.00**
MZ-4217	12	08-14855	**$357.00**	**$175.00**
MZ-4218	12	08-14856	**$357.00**	**$175.00**
MZ-4219	12	08-14857	**$357.00**	**$175.00**
MZ-4223	12	08-14858	**$358.00**	**$175.00**
MZ-4224	12	08-14859	**$357.00**	**$175.00**

DELCO OVERHAULED STARTERS

Delco ID	Voltage	Part No.	Price	Core
1108234	24	07-00131	**$436.00**	**$150.00**
1108249	12	07-00132	**$436.00**	**$150.00**
1109514	12	07-00142	**$285.95**	**$200.00**
1109519	12	07-00145	**$322.00**	**$250.00**
1109652	12	07-00147	**$261.95**	**$200.00**
1109656	12	07-00148	**$305.00**	**$200.00**
1109681	12	07-03115	**$568.00**	**$200.00**
1108234	24	08-14802	**$278.95**	**$150.00**
1109504	12	08-14803	**$323.00**	**$175.00**
1109505	24	08-14804	**$283.95**	**$175.00**
1109506	12	08-14805	**$323.00**	**$175.00**
1109509	24	08-14806	**$390.00**	**$175.00**
1109511	12	08-14807	**$323.00**	**$175.00**
1109512	12	08-14808	**$323.00**	**$175.00**
1109517	24	08-14809	**$390.00**	**$175.00**
1109518	24	08-14810	**$390.00**	**$175.00**
1109651	12	08-14811	**$254.95**	**$125.00**
1109657	12	08-14812	**$254.95**	**$125.00**
1109658	12	08-14813	**$278.95**	**$125.00**
1109660	12	08-14814	**$278.95**	**$125.00**
1109665	24	08-14816	**$390.00**	**$175.00**
1109668	12	08-14817	**$263.95**	**$125.00**
1109669	24	08-14818	**$390.00**	**$175.00**
1109673	12	08-14819	**$334.00**	**$150.00**
1109675	24	08-14820	**$390.00**	**$175.00**
1109677	12	08-14821	**$357.00**	**$125.00**
1109678	12	08-14822	**$278.95**	**$125.00**
1109679	12	08-14823	**$323.00**	**$150.00**
1109680	24	08-14824	**$390.00**	**$175.00**
1109681	12	08-14825	**$278.95**	**$125.00**
1109684	12	08-14826	**$278.95**	**$125.00**
1109687	24	08-14827	**$390.00**	**$175.00**
1109688	12	08-14828	**$323.00**	**$150.00**
1109689	12	08-14829	**$334.00**	**$150.00**
1109690	24	08-14830	**$390.00**	**$175.00**
1109694	12	08-14831	**$279.95**	**$125.00**
1109695	12	08-14832	**$323.00**	**$175.00**
1109696	24	08-14833	**$390.00**	**$175.00**
1109768	12	08-14834	**$263.95**	**$150.00**
1109909	24	08-14835	**$278.95**	**$150.00**
1109926	12	08-14836	**$278.95**	**$150.00**
1113471	12	08-14837	**$605.00**	**$400.00**

AEROTECH TCM OVERHAULED STARTERS

Mfr. PN	PN	Price	Core
646238	**08-14800**	**$339.00**	**$225.00**
646275	**08-14801**	**$339.00**	**$225.00**

NOTE:
Exchange prices are shown. Core charges apply to all units.

EP

FALCON OVERHAULED ALTERNATORS

FALCON ES4000 SERIES OVERHAULED ALTERNATORS

Factory Overhauled ES4000 Series Alternators.

Model Number	Volts/Amps	Description	Part No.	Price
ES4000	15V/60A	Belt Driven	07-19049	**$300.95**
ES4000LS	15V/60A	Belt Driven	07-19050	**$300.95**
ES4005	28V/60A	Belt Driven	07-19051	**$300.95**
ES4005-2	28V/60A	Belt Driven	07-19052	**$300.95**
ES4007	28V/60A	Belt Driven	07-19053	**$300.95**
ES4009	28V/70A	Belt Driven	07-19054	**$338.00**
ES4009LS	28V/70A	Belt Driven	07-19055	**$338.00**
ES4013	28V/80A	Belt Driven	07-19056	**$363.00**
ES4013LS	28V/80A	Belt Driven	07-19057	**$363.00**
ES4017	15V/80A	Belt Driven	07-19058	**$363.00**
ES4018	28V/70A	Belt Driven	07-19059	**$300.95**
ES4018LS	28V/70A	Belt Driven	07-19060	**$300.95**
ES4021	28V/70A	Belt Driven	07-19061	**$300.95**
ES4023	28V/80A	Belt Driven	07-19062	**$363.00**
ES4024	28V/85A	Belt Driven	07-19063	**$369.00**
ES4024L	28V/85A	Belt Driven	07-19064	**$369.00**
ES4024LP	28V/85A	Belt Driven	07-19065	**$369.00**
ES4030	28V/70A	Belt Driven	07-19066	**$338.00**
ES4031	28V/85A	Belt Driven	07-19067	**$369.00**
ES4040	15V/85A	Belt Driven	07-19068	**$363.00**
ES4003	15V/95A	Belt Driven	07-19069	**$388.00**
ES4003LS	15V/95A	Belt Driven	07-19070	**$388.00**
ES4011	28V/95A	Belt Driven	07-19071	**$388.00**
ES4011LS	28V/95A	Belt Driven	07-19072	**$388.00**
ES4011-1	28V/95A	Belt Driven	07-19073	**$388.00**
ES4011-1LS	28V/95A	Belt Driven	07-19074	**$388.00**
ES4014	28V/90A	Belt Driven	07-19075	**$388.00**
ES4016	12V/90A	Belt Driven	07-19076	**$388.00**
ES4019	28V/130A	Belt Driven	07-19077	**$413.00**
ES4019LS	28V/130A	Belt Driven	07-19078	**$413.00**
ES4019-2LS	28V/130A	Belt Driven	07-19079	**$413.00**
ES4022	12V/130A	Belt Driven	07-19080	**$413.00**
ES4001	15V/60A	Gear Driven	07-19081	**$325.00**
ES4002	15V/80A	Gear Driven	07-19082	**$344.00**
ES4004	28V/38A	Gear Driven	07-19083	**$325.00**
ES4006	28V/60A	Gear Driven	07-19084	**$325.00**
ES4008	28V/70A	Gear Driven	07-19085	**$338.00**
ES4028	15V/85A	Gear Driven	07-19086	**$357.00**
ES4029	28V/70A	Gear Driven	07-19087	**$338.00**

FALCON TCM OVERHAULED ALTERNATORS

Factory Overhauled TCM Alternators.

Model Number	Description	Part No.	Price
642055	24V/60A	07-19043	**$757.00**
646843	24V/60A	07-19047	**$757.00**
646490	24V/60A	07-19045	**$757.00**
642056	24V/100A	07-19044	**$869.00**
646491	24V/100A	07-19046	**$869.00**

FORD OVERHAULED ALTERNATORS

Factory Overhauled Ford Alternators.

Model Number	Description	Part No.	Price
DOFF10300F	15V/60A	07-19038	**$325.00**
DOFF10300J	15V/60A	07-19041	**$300.95**
DOFF10300M	15V/60A	07-19042	**$300.95**
EOFF10300AA	15V/95A	07-19031	**$388.00**
DOFF10300E	28V/38A	07-19037	**$325.00**
DOFF10300G	28V/38A	07-19039	**$325.00**
C6115050102	28V/95A	07-19028	**$388.00**
D7FF10300AA	28V/95A	07-19029	**$388.00**
DOFF10300A	28V/95A	07-19033	**$300.95**
DOFF10300B	28V/95A	07-19034	**$299.00**
DOFF10300C	28V/95A	07-19035	**$325.00**
DOFF10300D	28V/95A	07-19036	**$325.00**
E3FF10300AA	28V/95A	07-19030	**$388.00**
EOFF10300BA	28V/95A	07-19032	**$325.00**

EP

FALCON OVERHAUL CHRYSLER ALTERNATORS

Overhaul Chrysler alternator Pulley Driven.

Model Number	Description	Part No.	Price
2098615	12V/37A	07-19022	**$293.95**
2098640	12V/37A	07-19023	**$293.95**
2642995	12V/37A	07-19025	**$293.95**
2642210	12V/60A	07-19024	**$293.95**
3656624R	12V/60A	07-06401	**$295.00**

NOTE:

Core charges apply to all overhauled units.

FALCON OVERHAULED ALTERNATORS

FALCON OVERHAULED ALTERNATORS

Falcon Overhauled Alternators.

Model Number	Volts/Amps	Description	Part No.	Price
ALE-6520	12V/40A	--	07-19145	**$250.95**
ALE-8520	12V/40A	--	07-19146	**$250.95**
ALE-8521	12V/40A	--	07-19147	**$250.95**
ALY-6520	12V/60A	--	07-19171	**$300.95**
ALY-6521	12V/60A	--	07-19172	**$299.95**
ALY-6522	12V/60A	--	07-19173	**$300.95**
ALY-6527	12V/60A	--	07-19174	**$300.95**
ALY-8521	12V/60A	--	07-19175	**$300.95**
ALY-8520	12V/60A	--	07-19176	**$300.95**
ALY-8523	12V/60A	--	07-19177	**$300.95**
ALY-8524	12V/60A	--	07-19178	**$300.95**
ALY-8526	12V/60A	--	07-19179	**$300.95**
ALX-6523	12V/70A	--	07-19165	**$300.95**
ALX-8521	12V/70A	--	07-19166	**$300.95**
ALX-8523	12V/70A	--	07-19167	**$300.95**
ALX-9522	12V/70A	--	07-19168	**$325.00**
ALX-9524	12V/70A	--	07-19169	**$325.00**
ALT-8520	24V/50A	--	07-19148	**$300.95**
ALT-8521	24V/50A	--	07-19149	**$300.95**
ALT-9522	24V/50A	--	07-19150	**$325.00**
ALU-6521	24V/70A	--	07-19151	**$300.95**
ALU-8521	24V/70A	--	07-19152	**$288.95**
ALU-9522	24V/70A	--	07-19153	**$325.00**
ALV-6403	24V/100A	Belt Driven	07-19154	**$869.00**
ALV-8402	24V/100A	Belt Driven	07-19155	**$869.00**
ALV-8511	24V/100A	Belt Driven	07-19156	**$869.00**
ALV-8512	24V/100A	Belt Driven	07-19157	**$869.00**
ALV-9401	24V/100A	Gear Driven	07-19158	**$869.00**
ALV-9405	24V/100A	Gear Driven	07-19159	**$869.00**
ALV-9406	24V/100A	Gear Driven	07-19160	**$869.00**
ALV-9407	24V/100A	Gear Driven	07-19161	**$869.00**
ALV-8511	24V/100A	--	07-19162	**$869.00**
ALV-8512	24V/100A	--	07-19163	**$869.00**
ALV-9510	24V/100A	Gear Driven	07-19164	**$869.00**

EP

FALCON DELCO OVERHAULED GENERATORS

Falcon Delco Overhauled Generators.

Model Number	Volts/Amps	Description	Part No.	Price
1101891	12V/20A	--	07-19090	**$300.95**
1101895	12V/35A	Belt Driven	07-19091	**$300.95**
1101908	12V/50A	Gear Driven	07-19092	**$300.95**
1101909	12V/50A	Belt Driven	07-19093	**$300.95**
1105053	24V/40A	--	07-19094	**$344.00**

NOTE:
Core charges apply to all overhauled units.

FALCON OVERHAULED STARTERS

Falcon Overhauled Starters.

Model Number	Description	Part No.	Price
ES646238-1	12V	07-19095	**$300.95**
ES646238-2	12V	07-19096	**$300.95**
ES646238-3	12V	07-19097	**$300.95**
MCL-6501	12V	07-19100	**$300.95**
MCL-6502	12V	07-19101	**$300.95**
MCL-6503	12V	07-19102	**$300.95**
MZ-4203	12V	07-19127	**$344.00**
MZ-4204	12V	07-19128	**$344.00**
MZ-4205	12V	07-19129	**$344.00**
MZ-4206	12V	07-19130	**$344.00**
MZ-4207	12V	07-19131	**$344.00**
MZ-4208	12V	07-19132	**$344.00**
MZ-4214	12V	07-19133	**$313.00**
MZ-4216	12V	07-19134	**$344.00**
MZ-4217	12V	07-19135	**$344.00**
MZ-4218	12V	07-19136	**$344.00**
MZ-4219	12V	07-19137	**$344.00**
MZ-4220	12V	07-19138	**$344.00**
MZ-4221	12V	07-19139	**$344.00**
MZ-4222	12V	07-19140	**$344.00**
MZ-4223	12V	07-19141	**$344.00**
MZ-4224	12V	07-19142	**$344.00**
MZ-4225	12V	07-19143	**$344.00**
MZ-4226	12V	07-19144	**$344.00**
ES646275	24V	07-19098	**$325.00**
ES646275-1	24V	07-19099	**$325.00**
MHB-4001	24V	07-19103	**$344.00**
MHB-4002	24V	07-19104	**$344.00**
MHB-4003	24V	07-19105	**$344.00**
MHB-4004	24V	07-19106	**$407.00**
MHB-4005	24V	07-19107	**$375.00**
MHB-4006	24V	07-19108	**$344.00**
MHB-4008	24V	07-19109	**$344.00**
MHB-4009	24V	07-19110	**$344.00**
MHB-4010	24V	07-19111	**$344.00**
MHB-4011	24V	07-19112	**$344.00**
MHB-4012	24V	07-19113	**$344.00**
MHB-4013	24V	07-19114	**$344.00**
MHB-4014	24V	07-19115	**$344.00**
MHB-4016	24V	07-19116	**$344.00**
MHB-4017	24V	07-19117	**$344.00**
MHB-4018	24V	07-19118	**$344.00**
MHB-4019	24V	07-19119	**$344.00**
MHB-4019A	24V	07-19120	**$344.00**
MHB-4020	24V	07-19121	**$344.00**
MHJ-4002	24V	07-19122	**$325.00**
MHJ-4003	24V	07-19123	**$325.00**
MHJ-4004	24V	07-19124	**$325.00**
MHJ-4005	24V	07-19125	**$325.00**
MMU-4001	24V	07-19126	**$344.00**

FALCON TCM OVERHAULED GENERATORS

Falcon TCM Overhauled Starters.

Model Number	Description	Part No.	Price
646238	12V	07-19088	**$299.00**
646275	24V	07-19089	**$325.00**

Prices Subject to Change Without Notice

B & C ALTERNATORS

B & C LIGHTWEIGHT ALTERNATORS

L-40 ALTERNATOR

The L-40 is a high-performance belt-driven 40 amp alternator for Lycoming engines. Designed to meet the rigorous demands of weight-sensitive homebuilt designs, without sacrificing reliability, the L-40 alternator features a precision-balanced rotor, sealed heavy-duty ball-bearings and 2 internal cooling fans. Weighs 6.1 lbs. and measures 3.9" (diameter) x 5.6" (length). Also includes mounting hardware, belt tension arm, and belt. Applicable to Lycoming O-235 through IO-720 engines.

L-40 Boss Mount (Wide Deck engine) P/N 07-06815 ....**$378.00**
L-40 Case Mount (Narrow Deck engine), w/ B&C Starter P/N 07-06810 ....**$498.00**

L-40 requires an external voltage regulator – see BELOW

L-40 alternators require external regulators – use: P/N 07-06742 (LR3C) for 14V, P/N 07-06786 (LS1A) for 28V

BC433-H GEAR DRIVEN ALTERNATOR WITH PMR3A

The BC433-H is a 30 amp 14V gear-drive alternator for Continental engines (C-75 through O-300). Featuring a unique brushless design, with a billet aluminum mounting flange and heavy-duty ball bearings, the BC433-H is an ideal choice for a variety of homebuilt designs. Weighs 4.4 lbs. and measures 4.1" (diameter) x 3.75" (length). Also includes a matching PMR3A Regulator and 505-1 Over-Voltage Protection kit. Sold without the Continental drive gear assembly (customer supplied), and requires the latest revision of the Hub (P/N 07-01327) and Retainer (P/N 07-01328). B&C has a limited supply of used drive gear assemblies, available at additional cost.

BC433-H Alternator .... P/N 07-00771.......... **$674.00**

ACCESSORIES

Generator Coupling (Cont. P/N: 653983).. P/N 07-01327.......... **$369.85**
Generator Retainer (Cont. P/N: 653982) . P/N 07-01328............ **$25.43**

SD-8 ALTERNATOR & REGULATOR

The SD-8 is a lightweight, spline-driven 14V alternator system for aircraft with an available vacuum pump drive pad. Features an ultra-reliable, brushless design, with a billet aluminum mounting flange and sealed heavy-duty ball bearings. With a nominal output of 8 amps, the SD-8 alternator is adequate for many day-VFR applications, and may be used as a backup power source on a variety of homebuilt aircraft. The SD-8 is a long-time favorite of top aerobatic pilots around the world. Weighs 2.9 lbs. and measures 3.5" (diameter) x 4.6" (length). Also includes a matching PMR1C Regulator, MS9134-01 gasket, and 504-1 Over-Voltage Protection kit.

P /N 07-06770........**$544.00**

LR3C AND LS-1A LINEAR CONTROLLERS (REGULATORS)

P/N 07-06742

The LR3C and LS-1A are more than your typical regulators; more accurately, they are alternator controllers. Each device combines 3 essential functions in one physical container—linear ("quiet") regulation, solid-state over-voltage protection, and low-voltage monitoring and warning. This makes possible sophisticated, space-saving, and cost-effective alternator control for homebuilt aircraft, while also improving safety of flight. The LR3C-14 may be used with 14 volt externally regulated alternators, while the LR3C-28 may be used with OEM-type, 28 volt externally regulated alternators. The LS-1A permits the use of B&C alternators in a 28 volt electrical system. The LR3C and the LS-1A weigh approximately 9 ounces each, and are intended for circuit type "B" (one field lead grounded directly) alternator systems.

LR3C-14 Regulator/Controller (14V)......P/N 07-06742 .... **$179.95**
LR3C-28 Regulator/Controller (28V, OEM alternator) P/N 07-06748 .... **$179.95**
LS-1A Regulator Controller (28V, B&C alternator) P/N 07-06786 .... **$179.95**
Battery Temperature Sensor..................P/N 07-06744 .... **$105.95**

BC460-H ALTERNATORS

Introducing the "Next Generation" 60 amp Alternator that saves both weight AND money – without sacrificing performance or reliability. The BC460-H features heavy-duty sealed ball bearings, two internal cooling fans, and a precision dynamically-balanced rotor (rare in the industry, but standard on every B&C!). Additionally, it has three attachment points for stable mounting, and we uniquely modify the BC460-H for use with a more sophisticated, aircraft style, external voltage regulator with over-voltage protection The BC460-H may be used in either a 14 volt or 28 volt electrical system, and includes your choice of Boss (Wide Deck) or Case (Narrow Deck) mounting brackets, attachment hardware, belt tension arm, high-performance belt, and pre-wired field connector assembly. Weight: 7.1 lbs.

Alternator Boss Mount .... P/N 07-17981 ...**$529.00**
BC460-H Alt. Case Mount For B&C Starter ...... P/N 07-17982 ...**$529.00**
BC460-H Alt. Case Mount For Non B&c Starter .... P/N 07-17983 ...**$529.00**

B & C BC462-H ALTERNATOR

The high-performance spline-driven alternator from the company that pioneered the spline-driven alternator over 20 years ago! The BC462-H mounts on a standard AND20000-spec accessory pad, and offers robust performance with a rated output of 35 to 45 amps @ cruise RPM. Every BC462-H features a CNC machined billet aluminum mounting flange for superior durability, heavy-duty sealed ball bearings, two internal cooling fans, a precision dynamically-balanced rotor (a B&C quality essential), and a special "shear section" drive coupling. Suitable for 14 volt or 28 volt applications, the BC462-H is designed for aircraft-style external control, and may be used as either a Primary or a Standby Alternator, depending on the electrical system configuration (see note below). Includes mounting gasket and pre-wired field connector assembly. Weight: 6.75 lbs.... P/N 07-17985 ....**$699.00**

NOTE: L-40, BC460-H, BC410-H, and BC462-H alternators require external regulators - use: P/N 07-06742 (LR3C) for 14V Primary, P/N 07-06786 (LS-1A) for 28V Primary, P/N 07-03461 (SB1B-14) for 14V Standby, and P/N 07-03462 (SB1B-28) for 28V Standby.

BC410-H ALTERNATOR

The BC410-H is the original high-performance spline-driven alternator that mounts on a standard vacuum pump accessory pad. It may be used either as a primary or a stand-by alternator for a nominal output of 20 to 30 amps, depending on engine RPM. Designed for many hours durable service, the BC410-H features a dynamically balanced rotor, heavy-duty sealed ball-bearings, 2 internal cooling fans, and a special "shear section" designed into the drive coupling. The BC410-H is externally-regulated, and may be used in either 14 and 28 volt homebuilt aircraft using our LR3C-14 (14V), LS-1A (28V), or SB1B (14V or 28V) Controllers. Measures 4.6" (diameter) and 6.0" (length), and weighs 5.75lbs. The BC410-H will clear a stock tachometer cable on Lycoming engines, as well as B&C Oil Filter Adapters.

P/N 07-06771 ....**$494.00**

200G ALTERNATOR & REGULATOR

The 200G is a 12 amp 14V gear-drive alternator for Continental engines (C-75 through O-300). Features a ultra-reliable, brushless design, with a billet aluminum mounting flange and heavy-duty ball-bearings. Used in the prototype Vari-Eze, as well as many Cassuts, Q-200s, and other homebuilt aircraft, the 200G has been in production for over 30 years, with many systems still in service. With a nominal output of 12 amps, the 200G will support a modest night-VFR-night system. Measures 4.4" (diameter) and 3.8" (length), and weighs 3.4 lbs. Also includes a matching PMR1C Regulator and 504-1 Over-Voltage Protection kit. Sold without the Continental drive gear assembly (customer supplied; or purchased at additional cost). Gear assembly must be installed by B&C – send to Aircraft Spruce for installation.

200G Alternator ....P/N 07-06575 ....**$540.00**
New Drive Gear..P/N 07-06500 ......**$1,017.00**

B&C PERMANENT MAGNET ALTERNATOR OVER-VOLTAGE (PM/OV) KITS

The PM/OV Kit is designed to provide over-voltage protection to homebuilt aircraft electrical systems using a permanent magnet alternator. Features a solid-state "crowbar" over-voltage protection module, relay, filter capacitor, panel-mount warning lamp, and wire terminals. Included with all new B&C Permanent Magnet Alternator systems.

504-1 20A PM/OV Kit (14 Volt).....................P/N 08-00658 ....**$67.75**
504-2 20A PM/OV Kit (28 Volt).....................P/N 07-00708 ....**$64.99**
505-1 40A PM/OV Kit (14 Volt).....................P/N 07-03488 ....**$76.75**

STARTERS – ALTERNATORS

IGHTWEIGHT STARTERS FOR LYCOMINGS

veight Starter for Lycoming engines. Weighing only : Starter was designed to meet rigorous demands of ircraft designs, without sacrificing reliability or performance. Introduced over 25 years ago, this same design has provided dependable service for thousands of satisfied customers. Every B&C Starter features heavy-duty sealed ball-bearings, all metal gears, electro-mechanical pinion engagement (no Bendix drive), and an efficient series-wound motor. Cantilevered pinion gear mounting requires no forward shaft support bearing, thus eliminating cowl interference or on-going maintenance. If battery failure precedes engine starting, a positive spring retraction system insures pinion gear disengagement. Both STC/ PMA and Homebuilt versions are available in 14 volt and 28 volt configurations. FAA-approved for any of the following series of Lycoming engines: • O-235 • O-290-D • O-320 • IO-320 • AIO-320 • AEIO-320 • LIO-320 • O-360 • HO-360 • LO-360 • IO-360 • HIO-360 • AIO-360 • AEIO-360 • TIO-360 • LTIO-360 • O-540 • IO-540 • HIO-540 • AEIO-540 • TIO-540 • LTIO-540 • IO-720

FOR CERTIFICATED AIRCRAFT APPLICATIONS

Part No.	Model No.	Pinion Gear Pitch	Teeth on Ring Gear	Battery Voltage	Price
07-06700	BC315-100-1	10/12	122	12	$624.00
07-06705	BC315-100-2	12/14	149	12	$625.00
07-06710	BC315-100-3	10/12	122	24	$650.00
07-06715	BC315-100-4	12/14	149	24	$665.00

FOR EXPERIMENTAL AIRCRAFT APPLICATIONS

Part No.	Model No.	Pinion Gear Pitch	Teeth on Ring Gear	Battery Voltage	Price
07-06720	BCS206-122-12	10/12	122	12	$594.00
07-06725	BCS206-149-12	12/14	149	12	$594.00
07-06730	BCS206-122-24	10/12	122	24	$620.00
07-06735	BCS206-149-24	12/14	149	24	$628.00

B & C LIGHTWEIGHT STARTERS FOR CONTINENTALS

With an innovative, patented design, the BC320 Starter for Continental engines solves all the problems that other starter designs have had—from worn-out clutches and broken pinions, to nagging oil leaks and catastrophic failure modes. Weighing only 10.3 lbs., it is also 4.3 to 5.2 lbs. lighter depending on your current starter configuration. Built for reliable service, the BC320 features a billet aluminum end bell, heavy-duty sealed ball-bearings, all metal gears, electro-mechanical pinion engagement, and an efficient series-wound motor. Cantilevered pinion gear mounting requires no forward shaft support bearing. The BC320 is a complete starter, ready to install, and includes an installation kit to convert from an existing pull-type starter, or an existing key-type starter. Both STC/ PMA and Homebuilt versions are available. FAA-approved for the following Continental engines: • C-75 • C-85 • C-90 • O-200 • C145-2 • IO-240 • O-300 • GO-300-A/B/C

FOR CERTIFICATED AIRCRAFT APPLICATIONS

Part No.	Model No.	Installation Kit	Battery Voltage	Price
07-06716-1	BC320-1	Existing Key-Type (501-1)	12	$618.00
07-06716-3	BC320-1	Existing Pull-Type (501-3)	12	$618.00

BC320-1 Starter Only ....P/N 07-06716 ....**$598.00**

FOR HOMEBUILT AIRCRAFT APPLICATIONS

Part No.	Model No.	Installation Kit	Battery Voltage	Price
07-06737-1	BC320-H	Existing Key-Type (501-1)	12	$608.00
07-06737-3	BC320-H	Existing Pull-Type (501-3)	12	$618.00

BC320-H Starter Only ....P/N 07-06737 ....**$598.00**

ACCESSORIES

501-1 ..... Installation Kit (key type)................ P/N 07-06752 .... **$24.95**

If you are replacing an existing key-type starter, a needle bearing will need to be removed from your engine before installing the BC320. A special tool kit is available to aid in removing this needle bearing. If you do not care to keep this kit, you may return it and be refunded $80.00.

501-2 Needle Bearing Removal Tool Kit....... P/N 07-06753 ..... **$105.90**

501-3 ..... Installation Kit (pull cable).............. P/N 07-06754 .... **$62.85**

LS-1A VOLTAGE REGULATOR

The LS-1A Controller offers linear voltage regulation, integral over-voltage protection, and low-voltage monitoring and warning. It has been specially designed, however, to permit the use L-40 & L-60 alternators in a 28v electrical system. The LS-1A weighs approximately 9 ounces, may be mounted on the cockpit side of the firewall, and is available with an optional battery temperature sensor for colder climates. Select a location for mounting that will protect unit from heat, vibration, and water. The pilot side of the firewall, or inside the cabin near the instrument panel, is recommended.

For Experimental Aircraft ONLY ....P/N 07-06786 ....**$179.95**

JASCO GEAR DRIVEN ALTERNATOR KITS

The Jasco alternator is STC'd for many aircraft including the early Cessna 150, 172, and 175 series as well as Beech Model 35's with early E series Continental engines. Applicable to Continental C-90, 0-200 and 0-300 engines. Well-proven over many years of use in a variety of aircraft. Kit variants include alternator, voltage regulator, and over-voltage control.

Volts	Amps	Drive	Alt. P/N	Kit P/N	Price
		New Alternators Only			
12	50	4 Stud, 6 Spline, Square Pad	6555T	07-01863	**$1,099.00**
12	50	Round Pad, Like Delco	6560T	07-01865	**$1,099.00**
12	50	6 Stud, 16 Spline, Round Pad	6565T	07-01866	**$1,199.00**
24	50	4 Stud, 6 Spline, Square Pad	7555T	07-00735	**$1,099.00**
24	50	6 Stud, 16 Spline, Round Pad	7565T	07-01868	**$1,199.00**
24	70	4 Stud, 6 Spline, Square Pad	7655T	07-00703	**$1,199.00**
24	70	Hiller Uh12e, Round Pad	7555H-72D	07-00702	**$1,749.00**
		Alternator Kits			
12	50	4 Stud, 6 Spline, Square Pad	6555-1	6555-1	**$1,369.00**
12	50	Round Pad, Like Delco	6560-1	07-06900	**$1,369.00**
12	50	6 Stud, 16 Spline, Round Pad	6565-1	6565-1	**$1,469.00**
24	50	4 Stud, 6 Spline, Square Pad	7555-1	7555-1	**$1,389.00**
24	50	6 Stud, 16 Spline, Round Pad	7565-1	07-75651	**$1,489.00**
24	70	4 Stud, 6 Spline, Square Pad	7655-1	07-20060	**$1,489.00**
		Accessories			
12		Voltage Controller	J12M20SP	07-00697	**$294.95**
24		Voltage Controller	J12M24SP	07-00696	**$294.95**
24		150 Ohm Resistor	17-10	07-01710	**$20.00**
24		75 Ohm Resistor	17-1	07-00699	**$20.00**
		Terminal Conversion Kit	ESC-2	07-00701	**$131.75**

TURBO STAND-BY ALTERNATOR

The Basic BAE-14/28 Auxiliary Power Supply is a manually deployed, air driven, emergency electric supply for small aircraft. Capable of supplying electric power to drive a basic complement of flight critical instruments. If a primary electrical system failure should occur, the pilot deploys the miniature turboalternator. The appropriate installation kit is included to reduce installation time and cost. The BAE-14/28 is currently STC'd for seven aircraft models: Cessna 210, 206, 182, Piper PA-32, PA-28, Bonanza, and Mooney. One Cardinal installation is flying on a 337.

BPE-14 Turbo Alternator.............................P/N 10-00747 .... **$999.95**

BAE-14/28 Auxiliary Power Supply ....P/N 10-00748 ..... **$2,622.00**

KELLY AEROSPACE DUAL ALTERNATOR KIT

The kit includes a duplicate 95 amp alternator to the original equipment, along with all the pulleys, belts, brackets and hardware for installation on the Lycoming IO-540 series engines. All system controls are panel mounted and the backup system is activated with a flip of a switch. STC Approved for Cessna 182, 182T, 182S.

Alternator Kit Cessna 182/182T ....P/N 07-01490 ....**$5,255.00**

Dual Alternator Kit Cessna 182S........P/N 07-01804 ....**$5,155.00**

CHRYSLER ALTERNATORS - FACTORY OVERHAULED

2098615R	12V/37A BD	08-07032	**$515.00**
2642996R	12V/37A BD	08-07033	**$295.00**
2642997R	12V/60A BD	08-07034	**$433.00**
3656623R	12V/41A BD	08-07035	**$296.95**
3656624R	12V/60A BD	07-01344	**$395.00**
3659924R	12V/60A BD	07-06401	**$295.00**

ALTERNATOR & GENERATOR BELTS

LYCOMING ALTERNATOR

37A19773-376 ....**$79.95**

LYCOMING GENERATOR BELTS

37B19774-374 ....**$98.75**

37B19774-325 ....**$75.75**

CONTINENTAL

539547-31.19..**$37.36**

Prices Subject to Change Without Notice

X-DRIVE STARTERS FROM HARTZELL ENGINE TECHNOLOGIES

- Weight 7.6 lbs.
- Perfect spin » Sweet spot engine starts, doesn't drain your power like other starters
- Start efficiency » Lowest inrush & operating current draw in the industry
- No mechanical Bendix
- Electromechanical solid-state solenoid
- Powerful permanent magnet » Performance
- Easy installation » Left or right mount
- FAA/PMA approved
- 2 Year Unlimited Hours Warranty *

The X-Drive aircraft starter is one of the most popular models because of its awesome power and compact size. Targeted toward Lycoming users that want one of the industries lightest but most powerful starter on the market, the X-Drive delivers the same high torque, low current draw, and superior duty cycle that had previously been available only to E-Drive customers. The introduction of the X-Drive starter allows Hartzell Engine Technologies to service virtually all OEM and aftermarket Lycoming applications.* Kick-backs not covered

Description	Part No	Price
Hartzell X-Drive Starter SRB-9022	08-06272	**$618.00**
Hartzell X-Drive Starter SRB-9031	08-06273	**$618.00**
Hartzell X-Drive Starter SRB-9032	08-06274	**$618.00**
Hartzell X-Drive Starter SRZ-9021	08-06275	**$585.00**
Hartzell X-Drive Starter SRZ-9022	08-06276	**$570.00**

Only 7.6 lbs.
Lightest Starter Available

APPLICATION DATA GUIDE

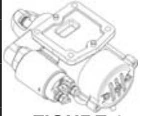


FIGURE 1

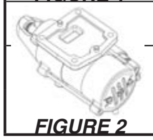


FIGURE 2

Solenoid to the Left: (X-Drive series: see figure 1)	
SRZ-9021 (12 Volt - 149 tooth)	SRZ-9022 (12 Volt - 122 tooth)
SRB-9021 (24 Volt - 149 tooth)	SRB-9022 (24 Volt - 122 tooth)
Solenoid to the Right: (X-Drive series: see figure 2)	
SRZ-9031 (12 Volt - 149 tooth)	SRZ-9032 (12 Volt - 122 tooth)
SRB-9031 (24 Volt - 149 tooth)	SRB-9032 (24 Volt - 122 tooth)

(12/14 pitch works on a 149 tooth ring gear & 10/12 pitch works on a 122 tooth ring gear.)

CROSS-REFERENCE CHART

Sky-Tec P/N	X-Drive P/N
122-12LS	SRZ-9022
122-12PM	SRZ-9032
122-24LS	SRB-9022
122-24PM	SRB-9032
149-12LS	SRZ-9021

Sky-Tec P/N	X-Drive P/N
149-12PM	SRZ-9031
149-24HT	SRB-9021
149-24LS	SRB-9021
149-24PM	SRB-9031

EP

HARTZELL ENGINE TECHNOLOGIES E-DRIVE STARTERS

- Lightweight neodymium permanent magnet motor
- In line design
- Self-resetting torque limiter for kickback protection
- Internal solenoid engagement
- Drive pinion supported by bearings on both ends

E-Drive aircraft starters offer industry-leading, robust, high duty cycle starters in a lightweight package. By utilizing a powerful neodymium permanent motor driven though a self-resetting negative torque-sensing device, the E-Drives provides unparalleled kickback protection, preventing hours of down time and replacement costs. The E-Drive aircraft starter is solenoid engaged, eliminating the need for a Bendix drive. Its low current draw helps maintain good battery life.

- High Performance Armature
- Increased commutator bar length
- Thin laminations
- High quality magnetic alloy
- 12 & 24 volt winding configuration
- Redesigned Brush Holder
- Metal construction for heat sinking
- Offset brush position for increased brush contact area
- Robust spring design
- High performance field housing
- Rare earth neodymium magnets
- Small package
- Stronger flux field
- Improved temperature stability
- 9.5 lbs.

- Starter system designed for maximum performance.
- Drive assembly integrates proprietary pinion gear, clutch, torque limiter, and actuator in one complete module.
- Available for coarse and fine pitch ring gears, clockwise and counterclockwise rotation.
- No periodic service or recurring maintenance required.
- 9.5 lbs.

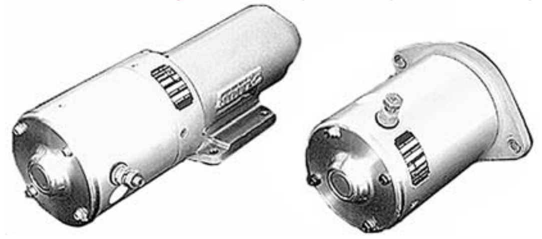
APPLICATION CHART

E-Drive Number - Approved Alternative for the following:

ERB-8011	ERB-8012	ERZ-8011	ERZ-8012
MHB-4001	MHB-4015	MZ-4205	MZ-4204
MHB-4002	MHB-4002	MZ-4206	MZ-6204
MHB-4003	MHB-6001	MZ-4207	
MHB-4005		MZ-4217	
MHB-4007		MZ-4218	
MHB-4010		MZ-4219	
MHB-4012		MZ-4221	
MHB-4013		MZ-4224	
MHB-4014		MZ-4222	
MHB-4016		MZ-4223	
MHB-4017		MZ-4225	
MHB-4019		MZ-6222	
MHB-4020		MZ-6224	

Model	Description	Lycoming Engine	Replaces	Part No.	Price
ERZ-8011	Clockwise rotation, 12 Volt, 149 tooth - 12/14 Pitch Gear	235, 290, 320, 340, 360, 540	Lycoming 31A21198, Sky-Tec 149-NL,149-12PM, LS, Lamar PM1201, PM1204, MZ-4205 thru -4207,-4217 thru -4219,-4221 thru -4226,-6222,-6224	07-01102	**$734.00**
ERZ-8012	Clockwise rotation, 12 Volt, 122 tooth - 12/12 Pitch Gear	235, 290, 320, 360, 540	Lycoming 31A21210, Sky-Tec 122-NL,122-12PM, LS, Lamar PM1203, MZ-4204,-6204	07-01103	**$735.00**
ERB-8011	Clockwise rotation, 24 Volt, 149 tooth - 12/14 Pitch Gear	235, 320, 340, 360, 540	Lycoming 31B21064, Sky-Tec 149-NL, 149-NL/ec, 149-24, Lamar PM2401, MHB-4010,-4016 thru -4020,-6014,-6016,-6018	07-01099	**$734.00**
ERB-8012	Clockwise rotation, 24 Volt, 122 tooth - 10/12 Pitch Gear	235, 290, 320, 340, 360, 540	Lycoming 31B21211, Sky-Tec 122-NL/ec,122-24PM, LS, Lamar PM2403, MHB-4015,-6001, MMU-4001,-6001, Delco 1109669	07-01101	**$728.00**
ELB-8011*	Reverse/Counter rotation, 24 Volt, 12/14 Pitch Gear	LTIO-540, LTIGO-540	Lycoming 14214, Sky-Tec 149-NLR/ec*, Lamar PM2404, MHB-4014, MHB-6014	07-02665	**$832.00**
ELZ-8021*	Reverse/Counter rotation, 12 Volt, 12/14 Pitch Gear	LIO-320, LO-360, LTO-360, LIO-360	Lycoming 14215, Sky-Tec 149-NLR, Lamar PM1204, MZ-4220, MZ-6220	07-02666	**$831.00**

HARTZELL OVERHAULED STARTERS



In addition to the factory new Lamar starters listed above, Aircraft Spruce also stocks overhauled Lamar starters. The PM1201 starter is ideal for the Lycoming O-320 & O-360 series engines and the PM2401 is applicable to the Lycoming O- 540 series engines.
Like the new Lamar starters, these overhauled starters are FAA/PMA approved, fully bench tested, provide superior cold weather performance, utilize a patented permanent magnet design, use a planetary gear reduction for optimum speed and torque (110 RPM), and draw less amperage than lightweights to help lengthen battery life.
Overhauled PM2404H starter............ P/N 08-06015.................**$319.95**

TCM ENERGIZER STARTERS

FACTORY NEW

Model	Volt/Amp	Core	Part No.	Price
ES646238-2	12V	**$150.00**	CALL	**CALL**
ES646275-1	24V	**$190.00**	CALL	**CALL**

FACTORY OVERHAULED

Model	Volt/Amp	Core	Part No.	Price
646238-2R	12V	**$150.00**	07-02650	**$395.00**
646275-1R	24V	**$190.00**	07-06502	**$396.00**

EP

HARTZELL ENGINE TECHNOLOGIES FACTORY OVERHAULED STARTERS

If No Cores are Available at factory, we will require your core for overhaul.

Mfg. Ref.	P/N	Core	Price
MC-6501	07-06503	$150.00	**$439.00**
MHB-4004R	08-06206	$175.00	**$760.00**
MHB-4005R	08-06207	$235.00	**$760.00**
MHB-4017R	08-06211	$200.00	**$524.00**
MHB-4020R	CALL	$200.00	**CALL**
MHJ-4003SR	07-06505	$190.00	**$437.00**
MHJ-4004R	08-06204	$185.00	**$837.00**
MHJ-4005R	08-06205	$300.00	**$798.00**
MZ-4204R	CALL	$165.00	**CALL**
MZ-4208R	08-06208	$124.00	**$375.00**
MZ-4219R	CALL	$200.00	**CALL**
MZ-4220R	08-06198	$200.00	**$504.00**
MZ-4224R	CALL	$200.00	**CALL**
MZ-4225R	08-06201	$200.00	**$426.95**
MZ-4226R	08-06202	$200.00	**$426.95**
646238-2R	07-02650	$150.00	**$395.00**

HARTZELL STARTER OVERHAUL KITS

Lamar Technologies overhaul kits include all parts necessary for a normal major overhaul, as well as any special tools, lubricants, and thread compounds. The model specific kits cover all starters manufactured by Lamar Technologies in eight different kits. The overhaul manual has been rewritten to highlight tear down and assembly with detailed drawings and instructions. The manual covers all aspects of the rebuild in easily understood steps with tech support just a call or email away. (See Documents Tab) Average time to do a complete overhaul can be accomplished in less than an hour reducing downtime and increase revenue, as well as maintain the quality standards of the maintenance organization.

Description	Part No.	Price
PM1201-OHK - Fits all PM1201/1202 starters	07-01269-1	**$293.95**
PM1203-OHK - Fits all PM1203 starters	07-01270-1	**$302.00**
PM1204-OHK - Fits all PM1204 starters	08-06007-1	**$302.00**
PM2401-OHK - Fits all PM2401/2402 starters	07-01272-1	**$287.95**
PM2403-OHK - Fits all PM2403 starters	07-01273-1	**$296.95**
PM2404-OHK - Fits all PM2404 starters	08-06009-1	**$309.00**

HARTZELL ENGINE TECH. NEW STARTERS

Description	Volt/Amp	Part No.	Price
MHJ-4003S New Hartzell Starter	24V	08-06180	**$439.00**
MHB-4014 New Hartzell Starter	24V	08-06182	**$776.00**

HARTZELL ENGINE TECH. STARTER DRIVES

Designed to fit prestolite starters. Shipping Weight: all units, 2 Lbs.

Description	Part No.	Price
EBB75A MZ series 4205 thru 4207, 4217 thru 4219. MHB series 4001 thru 4007 & 4010 thru 4013	07-06515	**$129.85**
EBB124A MHJ series-All, MMU series-All, MZ4204, MHB4015	07-06510	**$133.75**
EBB131A MZ series 4221 thru 4223, MHB 4016 thru 4019	07-06511	**$110.75**
EBB142A STARTER DRIVE ES	07-06512	**$132.75**
Lamar 9301001-F 01 OVERHAUL KIT PM1201 & 2401 Series Starters includes shear pin	07-01180	**$101.85**

QUALITY AIRCRAFT OVERHAULED STARTER ADAPTERS

07-19957

Description	Part No.	Price
642083A12	07-19956	**$1,295.00**
642085-A17	07-19958	**$1,295.00**
642087A64	07-19959	**$2,275.00**
642087A68	07-19960	**$2,275.00**
642087A69	07-19962	**$2,275.00**
642087A70	07-19963	**$2,275.00**
635048-A1	07-19964	**$1,595.00**
635048-A16	07-19965	**$1,595.00**
635048-A20	07-19966	**$1,595.00**
635050A4	07-19967	**$1,195.00**
643259A18	07-19968	**$1,295.00**
643259A39	07-19969	**$1,436.00**
658440A1	07-19970	**$1,295.00**
653074-A51	07-19971	**$1,795.00**
646220-A37	07-19972	**$1,295.00**
646220-A5	07-19973	**$1,295.00**

CONVERSION CHART

The Magnaflite lightweight starter listed in the table below will be superseded by the E-Drive and/or X-Drive starter listed therein. All Magnaflite P/N's listed below that are currently installed, being installed or in inventory are in no way affected. Standard Limited Warranty, is in effect and returns for reason of supersedure will not be accepted.

KAPS Part Number	X-Drive Left Hand Solenoid	X-Drive Right Hand Solenoid	E-Drive
MHB-6016	SRB-9021	SRB-9031	ERB-8011
MHB-6018	SRB-9021	SRB-9031	ERB-8011
MMU-6001	SRB-9022	SRB-9032	ERB-8012
MZ-6204	SRZ-9022	SRZ-9032	ERZ-8012
MZ-6222	SRZ-9021	SRZ-9031	ERZ-8011
MZ-6224	SRZ-9021	SRZ-9031	ERZ-8011
MZ-6226	SRZ-9021	N/A	ERZ-8011

Prices Subject to Change Without Notice

SKY-TEC ST2 & KCST2 MODEL STARTERS FOR SMALL CONTINENTAL ENGINES

SKY-TEC PULL START CONVERSION C12ST2 - FOR FACTORY KEYSTART STARTER FOR A65-12 THROUGH O-300C ENGINES - 9.2 lbs., Bolt-off / Bolt-on, High Torque, Low-Current, Gasket Included, Replaces TCM starter & continuous running sprag clutch in TCM factory keystart engines. Now featuring internal, self-resetting Kickback Protection System - zero maintenance - no pin to shear.

SKY-TEC KCST2 - STC-CERTIFIED CONVERSION KIT FOR FACTORY PULL-START ENGINES - STC Modification of Engine Required (removal of OEM starter pinion shaft in rear of engine). STC Modification of Airframe Required (replacement of pull-start T-handle with Sky-Tec-supplied push button & wiring) High Torque, Low-Current, 9.2 lbs. Now featuring internal, self-resetting Kickback Protection System - zero maintenance - no pin to shear. **Complete Conversion Kit includes:** C12ST2/S Starter, Push Button Switch, Wiring Harness, Gasket, Instructions, STC for Airframe Modification, STC for Engine Modification

SKY-TEC KEY-START C12ST2/SR - REVERSE TURNING for Continental GO-300 Engines ONLY - Internal, self-resetting Kickback Protection System - zero maintenance - no pin to shear. 6-8 lbs. lighter and significantly more reliable than the original, heavyweight factory starter. **Also sold in a Kit (KCST2/SR)**STC Certified conversion kit includes C12ST2/SR REVERSE TURNING starter for GO-300 engines (only), push-button switch, push-to-start placard, wiring harness, two STC's (one for airframe modification, one for engine modification) and instructions. 2-year factory warranty.

Model C12ST2 (Starter only)..............P/N 07-00614 .... **$599.00**
Model C12ST2/S (Starter only) ....P/N 07-00719 .... **$599.00**
Model KCST2 conversion kit ....P/N 07-00721 .... **$624.00**
KCSW Switch and harness only.........P/N 07-00722 .... **$71.75**
Model C12ST2/SR (Starter only)........P/N 07-01855 .... **$605.00**
Model KCST2/SR (Kit)........................P/N 07-01856 .... **$633.00**

SKY-TEC ST3 MODEL STARTERS FOR LARGE CONTINENTAL ENGINES

Safe for all types of TCM starter adapters! Feature Sky-Tec's exclusive proprietary clutch design virtually eliminating starter induced TCM starter adapter wear. FAA/PMA certified replacement part approved for all TCM starter adapters including "classic Style", "improved style", "permold", and "sand cast" engines. Simple bolt-off / bolt-on instal-lation. Designed to crank no slower than TCM heavyweight OEM starters. Weight: 6.9 lbs. Generous 2-Year factory warranty.

Model C12ST3 12 Volt....................... P/N 07-00766........**$620.00**
Model C24ST3 24 Volt....................... P/N 07-00767........**$535.00**

SKY-TEC ST4 SERIES STARTERS FOR TCM

The proven centrifugal release clutch from the ST3 is combined with the higher torque motor of the ST5 to provide a light weight, high torque, starter adapter friendly starter perfect for both 12 volt and 24 volt 470-powered aircraft. Recommended for 12V and 24V Continental 470-series engines. For O-300-D through TSIO-550 engines, eligibility is by FAA PMA Supplement 12.

12V(C12ST4).............P/N 07-17769 ....**$519.00**
24V(C24ST4).............P/N 07-17770 ....**$563.00**

SKY-TEC ST5 SERIES STARTERS

The ST5 starter couples a high power 2.2 kW motor with an innovative solenoid-engaged (and disengaged) drive system completely disengages the powerful permanent magnet motor while the starter is unpowered eliminating possible TCM starter adapter wear while providing authoritative, high-torque starting. Positive solenoid enabled engagement and disengagement allows the TCM starter adapter to fully unwrap under all normal operating conditions thus greatly prolonging starter adapter life.

Weight: 9.1 lbs. C12ST5 ....P/N 07-01341 ....**$519.00**
C24ST5 ....P/N 07-01342 ....**$554.00**

SKY-TEC BCE-6 EXTENSION CABLE KIT

6" Battery Cable Extension kit aids the instal-lation of starters in aircraft that have lim-ited slack available in the aircraft's starter power cable. Generally not required for TCM starter installations. May be needed in some PM, and NL model Lycoming installations. P/N 07-00923 .... **$16.85**

SKY-TEC LSA STARTER

The lightest Lycoming starter ever at just 6.3 lbs. The 122-LSA is Lycoming's factory OEM starter on the new O-233 LSA engine. An excellent 12V starter for O-235, O-290 and O-320 engines with 122-tooth ring gears. Plenty of torque, high cranking speed, low current draw. Features a pre-cision machined housing specifically designed to mount the lightweight Plane-Power AL12-EI60 alternator - enabling the industry's lightest weight starter/alternator pairing at just 13.2 lbs. for both! Perfect for lightweight, Lycoming-powered LSA aircraft. Experimental.

Starter 122-LSA..................................P/N 07-01806 ....**$465.00**
122-LSA Starter & AL12-E160-L Alternator Kit
P/N 07-01806-1 ....**$949.00**

SKY-TEC STARTERS HIGH-TORQUE INLINE STARTERS FOR LYCOMING ENGINES

Featuring Sky-Tec's Exclusive KPS® Kickback Protection System, Sky-Tec's NL-series of starters fit all Lycoming powered aircraft. All NL-series starters are FAA-PMA certified as replacement parts for all non-geared, flat Lycoming engines. Sky-Tec NL-series starters fit without modification or 337 paperwork. At only 9.3 lbs., the NL-series is the lightest Bendix-free inline available. Two-year warranty.

Model No.	Voltage/ Description	Pitch	FAA-PMA Eligible	Part No.	Price
122-NL	12 Volt (Also 24 Volt Switchable)	10/12 (for 122- Tooth Rng Gears)	Lyc 235, 290, 320, 360, 540 & 720	07-00761	**$429.00**
149-NL	12 Volt (Also 24 Volt Switchable)	12/14 (for 149- Tooth Rng Gears)	Lyc. 235, 290, 320, 340, 360, 540	07-00762	**$425.00**
149-NLR	12 Volt (Also 24 Volt Switchable)	12/14 (for 149- Tooth Rng Gears)	Lyc. LIO-320, LO-360, LTO-360, LIO-360, LHIO-360, & LTIO-540	07-00763	**$429.00**
122-NL/ec	24 Volt Super Duty	10/12 (for 122- Tooth Rng Gears)	Lyc. 235, 290, 320, 360, 540 & 720	08-07061	**$489.00**
149-NL/ec	24 Volt Super Duty	12/14 (for 149- Tooth Rng Gears)	Lyc. 235, 290, 320, 340, 360, 540 &	08-07059	**$485.00**
149-NLR/ec	24 Volt Super Duty	12/14 (for 149- Tooth Rng Gears)	Lyc. LTIO-540	08-07060	**$489.00**

SKY-TEC HIGH-TORQUE STARTER

One of the lightest Lycoming starters available at only 8.9 lbs. Spins twice as fast as most heavy-weight OEM starters. Zero maintenance - no pins to replace in the event of a kickback. FAA-PMA approved for most Lycoming engines. Some airframe applications may require minor modification for best fit. Confirm aircraft fit, ring gear tooth count and voltage before ordering. 2-Year factory warranty.

Model	Voltage	Description	Part No.	Price
122-12HT	12 Volt	10/12 Pitch (122 Tooth)	07-06250	**$559.00**
122-24HT	24 Volt	10/12 Pitch (122 Tooth)	07-06251	**$566.00**
149-12HT	12 Volt	12/14 Pitch (149 Tooth)	07-01840	**$559.00**
149-24HT	24 Volt	12/14 Pitch (149 Tooth)	07-01841	**$559.00**
149-12HT-H	12	12/14 (149 Tooth) Sky-Tec Starter	07-01336	**$559.00**
149-24HT-H	24 Volt	Replaces B&C Starters on 24 Volt Robinson Helicopters	07-01844	**$599.00**
149-24HT/EC	24	Sky-Tec Starter (149 Tooth)-SuperDuty/ec	07-06255	**$566.00**
149-12HTL	12	149 Tooth	07-01336	**$559.00**
149-24HTL	24	149 Tooth	07-17787	**$562.00**

SKY-TEC FLYWEIGHT™ STARTERS FOR LYCOMING ENGINES

FAA-PMA approved for most Lycoming engines. Some airframe applications may require modification for best fit. LS model has the solenoid offset to the left side and PM model is offset to the right. Confirm aircraft fit, ring gear tooth count and voltage before ordering. Generous 2-Year factory warranty. Note: The LS Solenoid is at the 2:30 position and the PM Solenoid is at the 7:30 position when viewed from the front. 8.1 lbs.

Model	Part No.	Price
122-12LS	07-06245	**$437.00**
149-12LS	07-06246	**$439.00**
122-12PM	07-06252	**$437.00**
149-12PM	07-06253	**$437.00**
122-24PM	07-06249	**$463.00**
149-24PM	07-06257	**$463.00**

SKY-TEC XLT STARTERS

The world's lightest starter ever certified for Lycoming engines. Only 6.5lbs! Only 8 inches total length and 3.5 inches tall! Left-side mounted sole-noid. High torque and fast spin. FAA PMA certified for most Lycoming 4-cylinder engines from O-235 to IO-390. Low current draw. Highly durable, fortified aluminum mount/housing. No Bendix to lubricate. Nothing to maintain. 2-Year factory warranty.

Voltage	Model	Recommended for	Part No.	Price
12V	122-12XLT	Lycoming O-235 - IO-390 engine powered aircraft with 10/12 pitch, 122-tooth ring gears	07-02419	**$437.00**
12V	149-12XLT	Lycoming O-235 - IO-390 engine powered aircraft with 12/14 pitch, 149-tooth ring gears	07-02420	**$432.00**
24V	122-24XLT	Lycoming O-235 - IO-390 engine powered aircraft with 10/12 pitch, 122-tooth ring gears	07-02421	**$463.00**
24V	149-24XLT	Lycoming O-235 - IO-390 engine powered aircraft with 12/14 pitch, 149-tooth ring gears	07-02422	**$463.00**

RECOMMENDED STARTER BY AIRCRAFT

For complete listing of recommended Sky-Tec™ Starters by Aircraft make & model, please see the Aircraft Spruce website for a link to the Sky-Tec™ website **at www.aircraftspruce.com**

EP

SKY-TEC SOLENOIDS – GPL STARTERS

SKY-TEC SOLENOIDS

Silver contacts provide 300A in-rush capability. Much higher than the original units. Strong spring and high-current coil for quick contact opening - minimizing arcing. Single coil terminal (other end connected to case).

Model No.	Volts	Description	Part No.	Price
STS-12S	12	Starter Solenoid	07-03562	**$71.75**
STS-24S	24	Starter Solenoid	07-03563	**$86.75**
STS-12M	12	Battery/Master Solenoid	07-03564	**$72.75**
STS-24M	24	Battery/Master Solenoid	07-03565	**$86.75**
STS-12A	12	Continuous Duty (Aux) Solenoid	07-03566	**$71.75**
STS-24A	24	Continuous Duty (Aux) Solenoid	07-03567	**$88.90**

GPL ELECTRIC STARTERS

GPL Electric offers an electric starter kit for several rotax engines. This unique system not only allows you to retain pull start, but also allows you to keep oil injection (if present) otherwise, a cover plate can be used (if space constrained). This system safely engages the ring gear at a 90 degree angle, then fully disengages from the crankshaft. The gpl electric starter kit will not disable the engine due to malfunction, so it is the safest designed after market starter kit available for rotax engines and is made in the U.S.. GPL Electric also provides excellent warranty, comprehensive technical support and maintains a full replacement of parts inventory.

GPL STARTER KITS FOR ROTAX ENGINES

GPL Electric Starter Kit Includes:
(M8) Hi Collar Split Washer, (M6 X 90) Socket Head Cap Screw, (M6) Hi Collar Split Lock Washer, (M6 X 18) Socket Head Cap Screw, (M6) Split Lock Washer, (M8 X 25) Socket Head Cap Screw, (M8 X 22) Low Profile Socket Head Cap Screw, Main Casting (D3) Sits In The 10:00 Pos or Main Casting (D4) Sits In The 11:00 Pos, Ring Gear, Inner Spacer, Starter Motor (Heavy Duty), Loctite 242 Threadlocker, Installations Instructions, and Coverplate (If Not Retaining Pull Start)
If Retaining Pull Start The Following Is Also Required
Outer Spacer (1), (M8 X 12) Hex Head Cap Screw (3), (M8) Split Lock Washer (3), and (M6 X 22) Socket Head Cap Screw (4)

Application	Model No.	Part No	Price
Rotax Engines (377,447,503)	03-001	15-06473	**$635.17**
Rotax Engines (462,582,618,670)	03-004	15-06472	**$635.17**
Rotax Engines (532 CDI)	03-005	15-08364	**$635.17**
Rotax Engines (532 POINT)	03-006	15-08365	**$635.17**

GPL RETAIN PULL START KITS

Retain Pull Start Kit: Engine Specific Outer Spacer And Required Hardware (nuts/bolts).

Application	Model No.	Part No	Price
Rotax Engines (462,582,618,670)	02-29 RO	15-05373	**$135.00**
Rotax Engines (377,447,503,532)	02-29 SO	15-05374	**$135.00**

GPL DELUXE STARTER KITS

The Deluxe Starter Kit Includes: Rubber Insulating Boots, Push Button Switch, Solenoid, Regulator/rectifier, 20 Amps Fuse / Fuse Holder, Cables & Wiring (aircraft Specific), Hardware (nuts/bolts). Deluxe Add On Kits Weighs 3 Lb

Application	Model No.	Part No	Price
Challenger Air Crafts (11 ft Cable)	03-009-11	15-08341	**$173.50**
Other Air Crafts (5 ft Cable)	03-009-05	15-08340	**$173.50**

GPL ELECTRIC REPLACEMENT STARTER MOTORS

This motor fits all GPL Starter Kits and the Hirth F23 Engine as well. Heavy Duty Starter Motor Model 02-70HD
P/N 15-05371 .... **$262.64**

REPLACEMENT STARTER MOTOR FOR ROTAX

(Replaces Rotax P/N 995-430) Voltage: 12 kW: 0.6 Condition: New Rotation: CW Starter Type: PMDD Number of Teeth: 9 Gear OD: 1.154" / 29.3mm Mtg Ear 1 Hole: M8-1.25 Threaded Mtg Ear 2 Hole: M8-1.25 Threaded Weight: 5.2 lbs / 2.36 kg.
Model No. 02-80 .... P/N 07-02388 .... **$199.00**

GPL PULL START RETENTION KIT

GPL pull start retention kit for Rotax 337, 447, 503, 532 - points and 532 - CDI.
P/N 15-05374 .... **$135.00**

GPL PULL START RETENTION KIT

GPL pull start retention kit for Rotax 462, 582, 618, 670.
P/N 15-07970 .... **$135.00**

GPL CLOCKWISE STARTER F33 AND CUYUNA

GPL clockwise starter f33 and cuyuna.
P/N 15-08398 .... **$262.64**

GPL OIL INJECTION DRIVE KIT

GPL oil injection drive kit long nut pull start.
P/N 15-08397 .... **$52.53**

GPL PUSH BUTTON SWITCH

GPL push button switch - 02-22
P/N 15-08396 .... **$25.50**

SEE WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE LIST OF REPLACEMENT PARTS.

ZEFTRONICS VOLTAGE REGULATORS

Photo	Description	Part No.	Approval	Price	Replacement For
	R15100 Rev A VR:14.2V. * Ground-Fault-Protection (GFP) * Trouble-Shooting Light (TSL) * Use R15V00 Rev A for built-in OV Protection.	07-00622	FAA-STC	**$185.75**	Cessna: C611001-0101, -0102, -0201. Beech: 33-380010 Electrodelta: VR600 Lamar: DGR6 FORD: D4FF-10316-BA, D4FF-10316-CA
	R15V00 Rev A VR:14.2V; OV 16V Same as R15100 Rev A plus OV Protection	07-00628	FAA-STC	**$218.95**	Zeftronics: R15100 Rev A (ACU), Plus V11100 (OVS)
	R1510N Voltage Regulation: 14.2V * Use R15V0N for built-in OV Protection * Single or Dual Alternator Application * Externally Adjustable	07-00624	FAA-STC FAA-PMA	**$238.95**	Prestolite: VSF7201, 2, 2S, 3, 3A, 3S, 4 Electrodelta: VSF7203A TCM: 649684-1 Piper: 550-383
	R15V0N VR: 14.2V ; OV 16.0V * Low/OV Light, OV Protection	07-00630	FAA-STC FAA-PMA	**$286.95**	Zeftronics: R1510N (ACU), Plus V1510A (OVR)
	R1510L Voltage Regulation: 14.2V. * Ground-Fault-Protection (GFP) * Trouble-Shooting Light * Reduced panel lights fli * Use R15V0L for built-in OV Protection	07-00623	FAA-PMA	**$179.95**	Piper: 450-392, 484-121, 66804-03, 756-055, 484-088 Beech: 169-380063 Wico: X16300B, X17990. Lamar: B00267-1, 2, B00331-1, 2. Delco Remy: 9000590, 1116393, 1116398 Electrodelta: VR200, A Commander: 1816110 Prestolite: FVR4004, 4224, 4011 RBM: 87-87102-21 Lycoming: LA-11357, 12747
	R15V0L VR: 14.2V ; OV: 16V * Ground-Fault-Protection (GFP) * Trouble-Shooting Light (TSL) * OV Protection built-in	07-00629	FAA-PMA	**$224.95**	Piper: 557-337 Lamar: B00371-1,-8,-14 Electrodelta: VR371 Zeftronics: R1510L (ACU), Plus V1510A (OVR)
	R15300 VR: 14.2V. OV: 16V * Ground-Fault-Protection (GFP) * OV Protection built-in, T/s Light	07-00625	FAA-PMA	**$278.95**	Mooney: 800270-505, 880016-503 Electrodelta: VR415F Lamar: DGR1-1
	R1530B VR: 14.2V. OV: 16V * Ground-Fault-Protection (GFP) * OV Protection built-in * Trouble-Shooting Light	07-00626	FAA-PMA	**$292.95**	Mooney: 880016-501 Beech: 35-380093-1,2,3 Electrodelta: VR414, B00403-1 ; EM2073-1, 2 Oeco: 20053, 20065, 20137, 20437, 20082
	R25101 Rev A VR: 27.7 * GFP & Trouble-Shooting Light * Use R25400 (require mod to ALT wiring & connector) for built-in OV Protection.	07-00631	FAA-PMA	**$174.95**	Cessna: C611004-0101, C611002-0102, -0105 Ford: C8FF/ C6FF-10316-A TCM: 636147 Electrodelta: VR500-0101
	R25102 Rev A Voltage Regulation: 28.7V Same features as R25101 Rev A	07-00632	FAA-PMA	**$169.95**	Cessna: C611004-0102 Electrodelta: VR500-0102
	R251DR VR: 27.7V **BEST VALUE** *Trouble-Shooting Light & GFP *Externally Adjustable	07-00634	FAA-PMA	**$323.00**	Delco Remy: 9000591 Lycoming: 74292 TMC: 631656
	R25400 VR: 28.7V *OV Protection built-in & GFP *Trouble-Shooting Light	07-00635	FAA-STC	**$251.95**	Cessna: C611005-0103, -0101, -0102 Electrodelta: VR515F,G, GA Lamar: DGR3
	R2510N VR: 28.4V *Use R25V0N for built-in OV Protection. *Single or Dual Alternator Application *Externally Adjustable	07-00633	FAA-STC	**$274.95**	Prestolite: VSF7403A, 3S, 4Piper: 550-381 Lycoming: LW10179, 77347
	R25V0N VR: 28.4V ; OV 32V R2510N plus OV Relay, Low/Over-Voltage Indicator	07-00636	FAA-STC	**$329.00**	Prestolite: VSF7403A,3S,4. Piper: 550-381. Lyc: LW10179, 77347 Zeftronics: R2510N + V2510A
	V11100 Over-Voltage Trip: 16.0V *Use w/ R15100 Rev A, VR600 or DGR6 *More Precise OV Protection	07-00637	FAA-STC	**$149.95**	Cessna: C593001-0101 Lamar: DG01 Electrodelta: OS60. Electromech: EM235
	V1510A Over-Voltage Trip: 16.0V *Use with R1510N or VSF72XX Series for OV Protection. *Use with R1510L for OV Protection *More Precise OV Protection	07-00638	FAA-STC FAA-PMA	**$184.75**	Piper: 450-397, 484-183, 550-380, 450-393 Beech: 138-1 Wico: X-17621 Lamar: B00289-2, B00339-1 Electrodelta: OS75-14 Delco-Remy: 1115831 Prestolite: FOC-4002B
	V25101 Over-Voltage Trip: 32V *Use with R25101(2) Rev A or VR500-0101,0102 for OV Protection	07-00639	FAA-STC FAA-PMA	**$209.95**	Cessna: C593003-0101, -0102 Electrodelta: OS100-0101 Electromech: EM233 Lamar: DG02-28 Other P/n: 138-3
	V2510A Over-Voltage Trip: 32.0V * More Precise OV Protection * Use with R2510N or VSF74XX	07-00640	FAA-STC	**$191.80**	Piper: 484-182, 550-382, 584-043 Prestolite: FOC4003A, B. Lycoming: 74804, 78060 Wico: X17634, X17620 Delco Remy: 1115832
	G1200N VR:14.2V. Current Limit (CL): 20A Trouble-shooting Lights, Electronic GCU	07-00617	FAA-PMA	**$234.95**	Delco: 1118736, 1118904, 1119226. VR300-14-20. Cessna: 0413025-4, 5, 12
	G1350N * VR 14.2V: Current Limit (CL): 35A trouble shooting Lights, Electronic GCU	07-00618	FAA-PMA	**$246.95**	Delco: 1118704, 1119220, 1118-704, 1118892. VR300-14-35, 450-390. Cessna: 0413025-6, 8, 10
	G1500N VR:14.2V: Current Limit (CL): 50A Trouble-shooting Lights, Electronic GCU	07-00619	FAA-PMA	**$246.95**	Delco: 1118884, 1118713, 1119224, Electrodelta: VR300-14-50. Cessna: 0413025-7, 9, 11
	G250KN VR: 28.4V.CL: 50A, EQR Built-in	07-01367	FAA-STC	**$315.00**	1119656 ,VR300-28-50. Cessna: 0850460-9

FOR A COMPLETE LISTING OF ALL PRODUCTS AND AIRCRAFT ELIGIBILITY LIST, VISIT WWW.AIRCRAFTSPRUCE.COM.

ZEFTRONICS CONTROLLERS

FOR EXPERIMENTAL AIRCRAFT

ZEFTRONICS B SINGLE ENGINE GENERATOR CONTROLLERS GCU

14V or 28V Type B Single Engine Generator Controller (GCU) available for 10 - 50A with built-in Reverse Current Protection, Field Ground Fault Protection (GFP), and Troubleshooting Lights. Replaces carbon pile Voltage Regulators.

14V B Single ....P/N 07-17986 ...... **$494.00**
28V B Single ....P/N 07-17987 ...... **$718.00**

ZEFTRONICS ELECTRONIC LINE CONTACTOR CONTROLLERS LCC

14V or 28V Electronic Line Contactor Controller Unit (LCC) with built-in OV Protection, Armature Voltage Protection, LC Coil-to-Ground Fault Protection, and Diagnostic Lights.

14V Electronic ....P/N 07-17988 ...... **$563.00**
28V Electronic ....P/N 07-17989 ...... **$696.00**

ZEFTRONICS 28V A SINGLE ENGINE GENERATOR CONTROLLER GCU

28V Type A Single Engine (SE) Generator Controller Unit (GCU) available for 10- 50A with built-in Reverse Current Protection, and Color-Coded Diagnostic Troubleshooting Lights.
Used on Ground Power Units.

14V A Single ....P/N 07-17990 ...... **$985.00**

ZEFTRONICS ALTERNATOR CONTROLLERS WITH OV PROTECTION

14V or 28V Alternator Controller Unit (ACU) with built-in OV Protection (OVP), Field-to-Ground Short Protection (GFP), and Troubleshooting Lights that separately indicate OVP, GFP, and Power-On.

14V ....P/N 07-17991 ...... **$445.00**
28V ....P/N 07-17992 ...... **$590.00**

ZEFTRONICS 28V ALTERNATOR CONTROLLER WITH LOW AND OV INDICATION

28V Alternator Controller (ACU) with built-in Low and OV Indication, OV Protection, Field-to-Ground Short Protection, and Color-Coded Diagnostic Lights.

28V ....P/N 07-17993 ...... **$544.00**

ZEFTRONICS 28V B ALTERNATOR CONTROLLER WITH LOW AND OV PROTECTION

28V Type B Alternator Controller Unit (ACU) with built-in OV Protection, OV Indication pin. Field-to-Ground Short Protection and Color-Coded Diagnostic Lights.

28V ....P/N 07-17994 ...... **$997.00**

ZEFTRONICS ALTERNATOR OUT SENSOR OV RELAY / DIAGNOSTIC LIGHTS

14V or 28V Alternator Out Sensor with built-in OV Protection Relay and, Diagnostic Lights.

14V ....P/N 07-17995 ...... **$255.00**
28V ....P/N 07-17996 ...... **$378.00**

ZEFTRONICS OVER VOLTAGE PROTECTION RELAYS WITH WARNING

16V or 32V Over-Voltage Protection Relay (OVP) with Low and Over-Voltage Warning For Type A or Type B 14V Alternator Systems.

14V ....P/N 07-17997 ...... **$298.00**
28V ....P/N 07-17998 ...... **$399.00**

NEW TEMPEST STARTERS

The Tempest PowerFlite series of aviation engine starters represents a new state-of-the-art energy efficient design providing reduced current draw and long life. The PowerFlite starter mounts directly to existing TCM engines and is available in both 12 and 24 volt configurations. Tempest starter part numbers PL13459 (12v) and PL13484 (24v) are eligible on TCM engine models O-300-D, GO-300-D, IO-346, IO-360, L/TSIO-360, O-470, IO-470, TSIO-470, IO-520, TSIO-520, GTSIO-520, IO-550, TSIO-550 and TSIOL-550.

Powerflite Starter 12V New ....P/N 08-07284 ....**$725.00**
Powerflite Starter 24V New ....P/N 08-07283 ....**$725.00**

See www.aircraftspruce.com for parts and accessories.

TEMPEST POWERFLITE ALTERNATORS

Note: Core charge will be added at time of order. Amount is refunded once original core is returned.

FAA/PMA Approved PowerFlite Alternator. 28 Volts/60 Amps. Model No. 9910591-11AC. For Cessna: 172R, 172S, 182S, 182T AND T182T

New ....P/N 08-07541 ....**$629.00**

OVERHAULED ALTERNATORS

Description	Part No.	Price
2642997R OH Alternator	08-15695	**$394.00**
3656624R OH Alternator	08-15696	**$402.00**
4111810R OH Chrysler Alternator	08-15694	**$402.00**
646843R OH Alternator	08-15693	**$998.00**
649304R OH Alternator	08-15692	**$1,056.00**
ALT-8520R OH Alternator	08-15682	**$481.00**
ALT-8521R OH Alternator	08-15685	**$513.00**
ALT-9522R OH Alternator	08-15681	**$495.00**
ALU-8521R OH Alternator	08-15680	**$502.00**
ALV-9510R OH Alternator	08-15684	**$1,054.00**
ALX-9524R OH Alternator	08-15687	**$525.00**
ALX-9525BR OH Alternator	08-15688	**$489.00**
ALY-6421R OH Alternator	08-15691	**$485.00**
ALY-6521R OH Alternator	08-15690	**$440.00**
ALY-6522R OH Alternator	08-15686	**$485.00**
ALY-8520R OH Alternator	08-15683	**$485.00**
T DOFF10300BR OH Alternator	08-15697	**$399.00**
DOFF10300JR OH Alternator	08-15698	**$402.00**
9910591-11ACR OH Alternator	08-07662	**$416.00**

TEMPEST POWERFLITE OVERHAULED STARTERS

The first of its starter motors is a FAA-PMA approved design eligible on TCM engines. The Tempest PowerFlite series of aviation engine starters represents a state-of-the-art energy efficient design providing reduced current draw and long life. The PowerFlite starter mounts directly to existing TCM engines and is available in both 12 and 24 volt configurations.

Tempest starter part numbers PL13459 (12v) and PL13484 (24v) are eligible on TCM engine models O-300-D, GO-300-D, IO-346, IO-360, L/TSIO-360, O-470, IO-470, TSIO-470, IO-520, TSIO-520, GTSIO-520, IO-550, TSIO-550 and TSIOL-550.

12V	Part No.	Price
MHB-4016R OH Starter	08-15705	**$610.00**
MZ-4204R OH Starter	08-15709	**$414.00**
MZ-4220R OH Starter	08-15710	**$531.00**
MZ-4222R OH Starter	08-15711	**$531.00**
MZ-4224R OH Starter	08-15712	**$531.00**
MCL-6501R OH Starter	08-15713	**$402.00**
646238-2R OH Starter	08-15715	**$402.00**
646238-3R OH Starter	08-15716	**$402.00**
24V	**Part No.**	**Price**
MHB-40014R OH Starter	08-15704	**$610.00**
MHB-4018R OH Starter	08-15706	**$610.00**
MMU-4001R OH Starter	08-15707	**$562.00**
MHJ-4003R OH Starter	08-15708	**$404.00**
646275R OH Starter	08-15714	**$402.00**

LAMAR MC10 MASTER ELECTRICAL CONTROL UNIT

MC10

The Lamar MC10 is a master electrical control unit developed for 14V and 24V single engine experimental aircraft. It is designed to mount on the firewall or fuselage. It houses all the major electrical components except for the battery, starter, and alternator. the MC10 provides a greater degree of protection against moisture, dust and accidental electrical shorts along with the convenience of all the primary electrical components in one location. Features low installation cost, ease of installation and simplified troubleshooting and repair with several new performance & safety features.

The MC10 embodies the following functions: • Master (battery) (solenoid) control closing the master switch on pilot's panel connects the battery to the primary bus. • 3 aircraft bus outputs, protected via resettable circuit breakers. • Alternator Control; voltage regulation, overvoltage protection, field output overload protection, alternator feeder fault protection • Starter control (solenoid) • Low voltage warning.(L model also includes overvoltage, over-current and reverse-current annunciation) • Battery charge/ discharge ammeter drive (current shunt) • Clock output (always-on) protected with easily accessible external mounted fuse. • Ground power receptacle & control (solenoid) with reverse polarity protection.

Description	Part No.	Price
Lamar Master Control 14V Exp.	11-03295	**$1,162.00**
Lamar GC07-EXP Generator Control	11-05042	**$1,414.00**
Lamar GC11-EXP Generator Control	11-05043	**$1,189.00**
Lamar MC09-T1 Master Control Turbo	11-05055	**$3,750.00**

LAMAR ELECTRICAL COMPONENTS

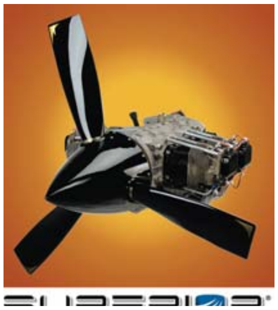
LAMAR #	DESCRIPTION	APPLICATIONS	OUR P/N	PRICE
A-00258-1	Switch, Alternator INOP	Piper: PA23 Series, PA30, PA39, PA38, PA28 Series, PA32 Series, PA34-200T, PA34-220T, Maule*, Raytheon:A36, V358, F338, F33, F33A, F33C, E33a, V35A, 36	07-01146	**$116.85**
A-00258-2	Switch, Alternator INOP	Piper: PA23 Series, PA31 Series, PA34, PA31P, Twin Commander 700 Maule*, Raytheon: 57, E55., 5895B55, D55	07-01147	**$116.85**
B-00266-2	Overvoltage Relay, 28V, Piper	Piper: PA23-235, PA23-250, PA31 Series, PA36 Series, Islander*: BN2A, BN2B, BN2T. BN2T-4, Trislander*: BN2A MK 11 Series	07-01148	**$351.00**
B-00286-1	Regulator, 28V, Parallel OP (twin)	Piper:PA23-235, PA23-250, PA31, PA300, PA44-180/180T, PA31P, PA34-220T, Cessna*:421, 414, 402, 340, 310	07-01449	**$399.00**
B-00288-1	Regulator, 14V, Parallel OP (twin)	Piper: PA23-235, PA23-250, PA30, PA39, PA34-200T, PA34-220T, PA44-180, PA44-180T, Gulfstream Aero*	07-01150	**$405.00**
B-00289-2	Overvoltage Relay, 14V	Piper: PA18, PA30, PA39, PA23-235, PA23-250, PA28 Series, PA32 Series, PA34-220, PA34-220T, Beech*: 19A, B19, M19A, 23, A23, A23A, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R, Bellanca*: 14-19, 19-2, 19-3, 19-3A, 17-30, 31, 31TC, 17-30A, 31A, 31ATC, Citabria*: 70CAA, 7ECA, 7GCBC, 7KCAB, 1GCBC, 1KCAB, Commander*: 112, B, TC, TCA, Cessna*:175, 185, 188, Grumman*: AA-1, Lake*: LA-4, A, P, Maule*: M-5-180C, 235C, M-6-180, 235, M-7-235, MX-7-180, 235, Varga*: 2150A	07-01151	**$291.95**
B-00306-3	Regulator, 28V, Parallel OP (twin)	Piper: PA60, PA60-601, PA60-601P, PA60-602P, PA60-700P	07-01153	**$488.00**
B-00325-1	Timer, Pneumatic, 28V	Piper: PA23 Series, PA31 Series, PA31T Series	07-01455	**$734.00**
B-00331-2	Voltage Regulator, Type 1, 14V	Piper: PA38	11-04130	**$236.95**
B-00341-1	Time Delay Switch	Piper: PA31 Series, PA42-720	07-01158	**$661.00**
B-00363-1	Timer, Courtesy Light, Beech-28V	Raytheon: E55, 58, 58TC, 58P, 38P, 38P-1, 38P-2, 390	07-01162	**$232.95**
B-00368-2	Alternator Control, 28V Load	PA28/PA-32 Series - See www.aircraftspruce.com for listing.	07-01803	**$431.00**
B-00371-1	Alternator Control, 14V	Piper: PA 28 Series, PA32 Series, PA38, Bellanca*: 80CB, 8KCAB, Maule*: M-5-180C, 235C. M-7-235, MT-7-235, M-8-235, MX-7-180, MXT-7-160, 180, 235, Aviat*:Pitts S-2B, S2S, Zenair*: Zenith 2000	07-01167	**$357.00**
B-00372-1	Alternator Control,Load Balancing	Raytheon: 58, E55, 95B55	07-01168	**$794.00**
B-00375-2	Monitor Low Voltage	Piper: PA31P, PA31T Series, PA34 Series, PA46-310, PA46-350, PA31 Series	07-01170	**$167.95**
B-00380-2	Sensor-Alt Out, 28V Pulsed	Raytheon: 58	07-01171	**$107.90**
B-00382-1	Alternator Control, 28V Load	Piper: PA31-350, PA34-220, PA46-310, PA46-350, PA31	07-01172	**$489.00**
B-00387-1	Voltage Regulator with Overvoltage Protection, 28V	Raytheon: A36, F33A, B36TC, 58, V35B, F33C	07-01173	**$487.00**
B-00392-1	Alternator Control, 14V, Piper	Piper: PA44-180, PA44-180T	07-01174	**$630.00**
B-00396-2	Dimmer Assembly, 14V/28V	Experimental	11-03165	**$466.00**
B-00403-1	Voltage Regulator with Overvoltage Protection, 14V	Raytheon: F33A, F33C, V35B, A36	07-01176	**$840.00**

LAMAR SOLENOIDS

Aviation grade, non FAA-PMA approved, solenoid for continuous duty 12 volt applications. Fits current GA production aircraft as well as legacy aircraft. Replaces both single terminal switched units, as well as the current double terminal switched units in production today. All units have multiple quality and functional tests prior to certification and delivery.

Description	Part Number	Price
X61-0028 12V Continuous	07-01875	**$67.75**
X61-0029 24V Continuous	07-01876	**$66.75**
X61-0030 12V Intermittent	07-01877	**$103.85**
X61-0031 24V Intermittent	07-01878	**$102.75**

XP EXPERIMENTAL ENGINES



These engine models include fuel pump, fuel system, magnetos, harness, spark plugs, lightweight starter, oil filter adapter, oil filter and updraft cast sump. Prop governor adapter included on constant speed models. Available in Dynafocal #1, Dynafocal #2 and Conical mounting configurations.

**** Attention: Roller Lifter Engine Kits do not come assembled, assembly required.***

Superior Part No.	Description	Part No.	Price
O-320-A1AC2	Carbureted, Fixed Pitch	08-12095	**$24,778.00**
O-320-B1AC2	Carbureted, Constant Speed	08-12097	**$25,112.00**
IO-320-A1AC2	Fuel Injected, Fixed Pitch	08-12098	**$25,667.00**
IO-320-B1AC2	Fuel Injected, Constant Speed	08-12099	**$26,000.00**
O-360-A1AC2	Carbureted, Fixed Pitch	08-12100	**$24,556.00**
O-360-B1AC2	Carbureted, Constant Speed	08-12101	**$25,112.00**
IO-360-A1AC2	Fuel Injected, Fixed Pitch	08-12102	**$25,667.00**
IO-360-B1AC2	Fuel Injected, Constant Speed	08-12103	**$26,000.00**
IO-400-J4AD9	Fuel Injected, Constant Speed	08-12104	**$33,889.00**
08-12105	Horizontal Cold Air Induction Sump Extra Charge on 320 & 360	08-12105	**$1,690.00**
08-12110	Piston 9:1 320 (165HP)/360 (185HP) Engine	08-12110	**$454.00**
08-12113	Lightspeed Single Plasma II Mini	08-12113	**$400.00**
08-12115	Lightspeed Dual Plasma II Mini	08-12115	**$753.00**

VANTAGE CERTIFIED OEM ENGINES

These engine models include fuel pump, fuel system, magnetos, harness, spark plugs, lightweight starter, oil filter adapter, oil filter and updraft cast sump. Prop governor adapter included on constant speed models. Available in Dynafocal #1, Dynafocal #2 and Conical mounting configurations.

Superior Part No.	Description	Part No.	Price
O-320-A1A2	Carbureted, Fixed Pitch	08-12087	**$28,200.00**
O-320-B1A2	Carbureted, Constant Speed	08-12088	**$28,500.00**
IO-320-A1A2	Fuel Injected, Fixed Pitch	08-12089	**$29,000.00**
IO-320-B1A2	Fuel Injected, Constant Speed	08-12090	**$29,300.00**
O-360-A1A2	Carbureted, Fixed Pitch	08-12091	**$28,200.00**
O-360-B1A2	Carbureted, Constant Speed	08-12092	**$28,500.00**
IO-360-A1A2	Fuel Injected, Fixed Pitch	08-12093	**$29,000.00**
IO-360-B1A2	Fuel Injected, Constant Speed	08-12094	**$29,300.00**

MILLENNIUM CYLINDERS

Uniform hardness all the way through the steel barrel walls which allows the barrel to provide even wear while withstanding extreme cylinder temperatures and pressures.

Exhaust and intake ports are volumetrically matched to maximum output and performance.

Increased port wall thickness - eliminates problems with warping and cracking.

Computer-generated head fin configuration - deliver more uniform heat transfer and fewer “hot” spots.

Manufactured from the most advanced alloys available - exceed industry standard for strength and porosity.

+ Included with stud assembly.

FOR CONTINENTAL ENGINES

Superior Part No.	Application	Part No.	Price
SA65000S0	A-65 (Sold in Kit of 4 - STC)	08-11477	**$5,952.00**
SA1020	0-A20P O-200-A, B; C-125-2, C-145-2, -2H; O-300A, B, C, D	08-10908	**$916.00**
SA10200-A21P	C-75, 85	08-10909	**$945.00**
SA10200-A22P	C-90	08-10910	**$980.00**
SA47006L-A20P	O-470-U; IO-470-D, E, F, H, L, M, N, S, U, V	08-11060	**$1,280.00**
SA47006S-A20P	O-470-G, M, P; IO-470-C, G, P, R	08-11061	**$1,384.00**
SA47006S-A21P	O-470-K, L, R, S	08-11062	**$1,280.00**
SA52006-A20P	IO-520-A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB	08-11098	**$1,398.00**
SA52006-A22P	TSIO-520-AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, WB	08-11099	**$1,348.00**
SA52006-A23P	IO-550-A, B, C	08-11100	**$1,390.00**
SA55006-A20P	IO-550-D, E, F, L (Taper Finned Barrel)	08-11208	**$1,490.00**

FOR LYCOMING ENGINES

Superior Part No.	Application	Part No.	Price
SL 10302-A20P	O-235-F, J (High Compression)	08-11510	**$1,391.00**
SL 10302-A21P	O-235-K, L, M (Medium Compression)	08-11511	**$1,278.00**
SL 32006N-A20P	O-320-B, D, IO-320-B (Narrow Deck)	08-11732	**$1,147.00**
SL 32006W-A20P	O320-B, D; IO-320-B, D; AIO-320-B, C; AEIO-320-D; LIO-320-B (Wide Deck)	08-11735	**$1,147.00**
SL 32006W-A21P	O-320-A, C, E; IO-320-A, E; AEIO-320-E; (Wide Deck)	08-11733	**$1,146.00**
SL 36006N-A20P	O-360-A, C; IO-360-B; HO-360-B; HIO-360-B; O-540-A, D, E, G; IO-540-C, D, N; TIO-540-G (Narrow Deck)	08-11745	**$1,097.00**
SL 36006N-A21P	O-360-B, D; O-540-B (Narrow Deck)	08-11746	**$1,096.00**
SL 36006W-A20P	-360-A, C, F, G; IO-360-B, E, M; HO-360-C; HIO-360-B; LO-360-A; AEIO-360-B, H; O-540-A, E, G, H; IO-540-C, D, N, T; AEIO-540-D (Wide Deck)	08-11749	**$1,084.00**
SL 36006W-A21P	O-360-B, D; O-540-B	08-11750	**$1,145.00**

EP

Prices Subject to Change Without Notice

SUPERIOR LYCOMING ENGINES - MAJOR OVERHAUL GASKET SETS

Lycoming engines are built with the best components in the industry. The only parts we paint are the steel barrels to resist corrosion. All aluminum parts; crankcase, assembly case, sump cylinder heads and assy drives are alodined only for corrosion protection. This leaves an engine that is easy to inspect, provides better cooling, and is lighter weight. FAA-PMA Approved

NOTE: Intake hoses and oil drain-back hoses must be ordered separately.

* Contains Exhaust Gaskets
** Contains Spiratallic "NO BLO" Exhaust Gaskets
*** Exhaust Gaskets, Not Included

Superior Part No.	Engine Model	Cylinder Head Type	Part No.	Price
SL61499-1**	O-235 Series	Parallel	08-11792	**$178.95**
SL69371-1**	O-290 Series	Parallel	08-11840	**$197.75**
SL12636*	AIO, AEIO-320 Wide Deck	Parallel	08-11572	**$320.00**
SL14815*	O-320-H Series ('76' Series)	Parallel	08-11627	**$147.75**
SL75439-1**	IO, HIO-360 Conventional IO-360-A, C, D, K; HIO-360-A, C; LIO, LHIO-C Wide Deck	Parallel	08-11966	**$189.85**
SL75441-1**	IO, HIO-360 Conventional IO-360-A, C, D, K; HIO-360-A, C; LIO, LHIO-C Wide Deck	Angle	08-11967	**$201.95**
SL12937***	HIO-360-D1A, D1AD Wide Deck	Angle	08-11580	**$360.00**
SL12945*	O, LO-360 Wide Deck (Dual Magneto)	Parallel	08-11582	**$173.85**
SL12944**	IO-360 Wide Deck (Dual Magneto)	Angle	08-11581	**$172.80**
SL14845***	HIO-360-E, F, Wide Deck (Dual Magneto) LHIO-360-F Wide Deck (Dual Magneto)	Angle	08-11628	**$202.95**
SL71900-1***	VO-435-A Series	Angle	08-11869	**$792.00**
SL71181-1***	GSO, IGSO-480 Series	Angle	08-11857	**$1,042.00**
SL71569-1***	O-540-A, B, E, F, G, H; IO-540-C, D, J, N, R Conventional and Wide Deck (Parallel Valve Head)	Parallel	08-11861	**$288.95**
SL73185-1***	IO-540-A, B, E, G, H, K, L, M, P, S Conventional and Wide Deck (Angle Valve Head)	Angle	08-11908	**$262.95**
SL13378*	O-540, B, E, G,H, Wide Deck (Dual Magneto)	Parallel	08-11594	**$198.75**
SL13367*	IO-540-K, L, M, U Wide Deck (Dual Magneto) AEIO-540-L1B5D Wide Deck (Dual Magneto)	Angle	08-11592	**$258.95**
SL13377*	IO-540-C, N, T, V, W; O-540-J, L Wide Deck (Dual Magneto)	Parallel	08-11593	**$192.75**
SL77175-1*	TIO-540-A Series Conventional; TIO-540-A2C Wide Deck	Angle	08-11995	**$393.00**
SL15903*	TIO-540-S1AD Wide Deck	Angle	08-11642	**$721.00**
SL12956*	TIO, LTIO-540-F, J, N, R (Dual Magneto)	Angle	08-11583	**$289.95**
SL75181-1*	IO-720-A, B, C, D Series Conventional	Angle	08-11959	**$428.00**
SL15423*	IO-720-A1B, B1B, B1BD, D1B, D1C, D1CD Wide Deck	Angle	08-11638	**$292.95**

SUPERIOR LYCOMING ENGINES - SINGLE CYLINDER GASKET SETS

Lycoming engines are built with the best components in the industry. The only parts we paint are the steel barrels to resist corrosion. All aluminum parts; crankcase, assembly case, sump cylinder heads and assy drives are alodined only for corrosion protection. This leaves an engine that is easy to inspect, provides better cooling, and is lighter weight. FAA-PMA Approved

NOTE: Exhaust Gaskets Must be Purchased Separately

Superior Part No.	Engine Model	Set No.	Part No.	Price
SL12040-SC	O-235 SERIES	SL12040-SC Parallel Valve Head	08-11559	**$14.70**
SL12032-SC	O-290; O, IO, LIO-320; AIO, AEIO-320; O-340; O-360-A, B, C, D, F; IO-360-B, E, F; AEIO-360-B, H; HO-360-A, B; HIO-360-B; VO, IVO-360 O-540-A, B, E, F, G, H, J, L; IO-540-C, D, J, N, R, T, V, W; TIO-540-C, E, G, H, K; LTIO-540-K; AEIO-540-D	SL12032-SC Parallel Valve Head	08-11545	**$12.16**
SL12039-SC	IO-360-A, C, D, J; AIO-360-A, B; AEIO-360-A; HIO-360-A, C, D, E, F; LIO-360-C; LHIO-360-C, F; TO-LTO-360-A; TIO-360-A	SL12039-SC Parallel Valve Head	08-11557	**$27.99**
SL16916-SC	O-320-H; O, LO, TO, LTO-360-E "76" SERIES	SL16916-SC Parallel Valve Head	08-11679	**$19.50**
SL12036-SC	O-435-A	SL12036-SC Parallel Valve Head	08-11552	**$13.95**
SL12034-SC	GO, VO, TVO-435; GO, GSO, IGSO-480; IO-540-A, G, K, L, P, S, AA; AEIO-540-L; TIO, LTIO-540-U; VO, TVO, TIVO-540; IGO, IGSO-540-A	SL12034-SC Angle Valve Head	08-11549	**$17.50**
SL12033-SC	IO-540-B, E, M, U; TIO-540-A, S, T; TIO-LTIO-540-F, J, N, R; TIO-541-A; IGO-IGSO-540-B	SL12033-SC Angle Valve Head	08-11547	**$14.94**
SL12037-SC	IO-720-A, D	SL12037-SC Angle Valve Head	08-11554	**$16.50**

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SUPERIOR MILLENNIUM CYLINDERS

Uniform hardness all the way through the steel barrel walls which allows the barrel to provide even wear while withstanding extreme cylinder temperatures and pressures. Exhaust and intake ports are volumetrically matched to maximum output and performance. Increased port wall thickness - eliminates problems with warping and cracking. Computer-generated head fin configuration - deliver more uniform heat transfer and fewer "hot" spots. Manufactured from the most advanced alloys available - exceed industry standard for strength and porosity.

Millennium Cylinders For Continental Engines

Model No.	Application	Part No.	Price
SA65000S0	A-65 (Sold in Kit of 4 - STC)	08-11477	**$5,952.00**
SA10200-A20P	O-200-A, B; C-125-2, C-145-2, -2H; O-300A, B, C, D	08-10908	**$916.00**
SA10200-A21P	C-75, 85	08-10909	**$945.00**
SA10200-A22P	C-90	08-10910	**$980.00**
SA47006L-A20P	O-470-U; IO-470-D, E, F, H, L, M, N, S, U, V	08-11060	**$1,280.00**
SA47006S-A20P	O-470-G, M, P; IO-470-C, G, P, R	08-11061	**$1,384.00**
SA47006S-A21P	O-470-K, L, R, S	08-11062	**$1,280.00**
SA52006-A20P	IO-520-A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB	08-11098	**$1,398.00**
SA52006-A22P	TSIO-520-AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, WB	08-11099	**$1,348.00**
SA52006-A23P	IO-550-A, B, C	08-11100	**$1,390.00**
SA55006-A20P	IO-550-D, E, F, L (Taper Finned Barrel)	08-11208	**$1,490.00**

Millennium Cylinders For Lycoming Engines

Model No.	Application	Part No.	Price
SL 10302-A20P	O-235-F, J (High Compression)	08-11510	**$1,391.00**
SL 10302-A21P	O-235-K, L, M (Medium Compression)	08-11511	**$1,278.00**
SL 32006N-A20P	O-320-B, D, IO-320-B (Narrow Deck)	08-11732	**$1,147.00**
SL 32006W-A20P	O320-B, D; IO-320-B, D; AIO-320-B, C; AEIO-320-D; LIO-320-B (Wide Deck)	08-11735	**$1,147.00**
SL 32006W-A21P	O-320-A, C, E; IO-320-A, E; AEIO-320-E; (Wide Deck)	08-11733	**$1,146.00**
SL 36006N-A20P	O-360-A, C; IO-360-B; HO-360-B; HIO-360-B; O-540-A, D, E, G; IO-540-C, D, N; TIO-540-G (Narrow Deck)	08-11745	**$1,097.00**
SL 36006N-A21P	O-360-B, D; O-540-B (Narrow Deck)	08-11746	**$1,096.00**
SL 36006W-A20P	O-360-A, C, F, G; IO-360-B, E, M; HO-360-C; HIO-360-B; LO-360-A; AEIO-360-B, H; O-540-A, E, G, H; IO-540-C, D, N, T; AEIO-540-D (Wide Deck)	08-11749	**$1,084.00**
SL 36006W-A21P	O-360-B, D; O-540-B	08-11750	**$1,145.00**

SUPERIOR AIR PARTS

Superior PN#	Description	Part No.	Price
AN124001	AN124001 O-ring	08-10756	**$5.35**
AN500A-10-8	AN500a-10-8 Bolt	08-10757	**$1.44**
AN565B1032H5	AN565b1032h5 Screw	08-10759	**$3.80**
AN791-2	AN791-2 Elbow	08-10761	**$50.50**
AS3208-18	AS3208-18 O-ring	08-10763	**$1.19**
AS3578-011	AS3578-011 O-ring	08-10764	**$0.81**
AS3578-017	AS3578-017 O-ring	08-10765	**$1.30**
AS3578-028	AS3578-028 O-ring	08-10766	**$1.44**
AS3578-150	AS3578-150 O-ring	08-10768	**$4.80**
AS3578-252	AS3578-252 O-ring	08-10770	**$4.50**
AS3582-009	AS3582-009 O-ring	08-10771	**$1.61**
AS3582-017	AS3582-017 O-ring	08-10772	**$0.31**
AS3582-112	AS3582-112 O-ring	08-10773	**$0.59**
AS3582-113	AS3582-113 O-ring	08-10774	**$0.58**
AS3582-130	AS3582-130 O-ring	08-10775	**$1.98**
	Horizontal Cold Air Induction Sump	08-12105	**$1,690.00**
IO-320-A1A2	IO-320-a1a2 Superior Cert Vantage Engine	08-12089	**$29,000.00**
IO-320-A1AC2	IO-320-a1ac2 Superior Exp Roller Lifter Engine	08-12098	**$25,667.00**
IO-320-B1A2	IO-320-b1a2 Superior Cert Vantage Engine	08-12090	**$29,300.00**
IO-320-B1AC2	IO-320-b1ac2 Superior Exp Roller Lifter Engine	08-12099	**$26,000.00**
IO-360-A1A2	IO-360-a1a2 Superior Cert Vantage Engine	08-12093	**$29,000.00**
IO-360-A1AC2	IO-360-a1ac2 Superior Exp Roller Lifter Engine	08-12102	**$25,667.00**
IO-360-B1A2	IO-360-b1a2 Superior Cert Vantage Engine	08-12094	**$29,300.00**
IO-360-B1AC2	IO-360-b1ac2 Superior Exp Roller Lifter Engine	08-12103	**$26,000.00**
IO-400-J4AD9	IO-400-j4ad9 Superior Exp Roller Lifter Engine	08-12104	**$33,889.00**
	Lightspeed Dual Plasma II Mini	08-12115	**$753.00**
	Lightspeed SinglePlasma II Mini	08-12113	**$400.00**
M25988/1-022	M25988/1-022 O-ring	08-10778	**$3.65**
M25988/1-902	M25988/1-902 O-ring	08-10780	**$1.46**
M83248/1-015	M83248/1-015 O-ring	08-10784	**$0.73**
M83248/1-019	M83248/1-019 O-ring	08-10785	**$1.02**
M83248/1-115	M83248/1-115 O-ring	08-10786	**$0.90**
M83248/1-120	M83248/1-120 O-ring	08-10787	**$0.75**
M83248/1-143	M83248/1-143 Oring	08-10789	**$1.87**
M83248/1-224	M83248/1-224 O-ring	08-10790	**$2.65**
M83248-1-117	M83248-1-117 O-ring	08-10794	**$0.55**
SA10200-A20P	Millennium Cylinder SA10200-a20p W/ Valves	08-10908	**$916.00**
SA10200-A21P	Millennium Cylinder SA10200-a21p Power Assy	08-10909	**$945.00**
SA55006-A20P	Millennium Cylinder SA55006-a20p Pwr Assy	08-11208	**$1,490.00**
SA52006-A23P	Millennium SA52006-A23p Cylinder Pwr Assy	08-11100	**$1,390.00**
SL10302-A21P	Millennium Sl10302-A21p Cylinder	08-11511	**$1,278.00**
SL32006N-A21P	Millennium Sl32006N-A21p Cylinder Complete Assy	08-11733	**$1,146.00**
SL32006W-A20P	Millennium Sl32006W-A20p Cylinder Com	08-11734	**$1,147.00**
SL36006N-A20P	Millennium Sl36006n-A20p Cylinder Complete Assy	08-11745	**$1,097.00**
SL36006N-A21P	Millennium Sl36006n-a21p Cylinder Complete Assy	08-11746	**$1,096.00**
SL36006W-A21P	Millennium Superior Sl36006w-a21p Cylinder Complete Assy	08-11750	**$1,145.00**
MM4SS	Mm4ss Drain Back Clamp	08-10796	**$2.65**
MS122081	MS122081 Insert	08-10798	**$0.59**
MS122162	MS122162 Helicoil	08-10800	**$0.60**
MS124737	MS124737 Helicoil	08-10801	**$3.35**
MS16624-1087	MS16624-1087 Ring	08-10804	**$2.04**
MS16624-2087	MS16624-2087 Snap Ring	08-10805	**$0.70**
MS16625-2081	MS16625-2081 Retaining Ring	08-10806	**$0.86**
MS16625-2100	MS16625-2100 Lock Ring Internal	08-10807	**$1.49**
MS16625-3187	MS16625-3187 Ring	08-10808	**$0.86**
MS20073-05-25	MS20073-05-25 Bolt	08-10810	**$9.50**
MS20822-6	MS20822-6 Elbow	08-10812	**$31.65**
MS20823-6D	MS20823-6d Elbow	08-10813	**$10.55**
MS20823-8D	MS20823-8d Elbow	08-10815	**$24.50**
MS20913-1	MS20913-1 Plug	08-10816	**$6.70**
MS20913-4S	MS20913-4s Plug	08-10817	**$19.50**
MS21209-C4-15	MS21209-c4-15 Helicoil	08-10818	**$0.93**
MS21318-14	MS21318-14 Drive Screw	08-10819	**$0.49**
MS21318-21	MS21318-21 Drive Screw	08-10820	**$0.31**
MS21333-104	MS21333-104 Clamp	08-10821	**$0.86**
MS21333-75	MS21333-75 Clamp	08-10823	**$1.30**
MS21333-83	MS21333-83 Clamp	08-10824	**$2.09**
MS27183-14	MS27183-14 Washer	08-10826	**$0.30**
MS27769-01	MS27769-01 Plug	08-10827	**$1.93**
MS27769-5	MS27769-5 Plug	08-10828	**$26.75**
MS27769-D5	MS27769-d5 Plug	08-10829	**$9.80**
MS29513-142	MS29513-142 O-ring	08-10838	**$1.09**
MS29513-214	MS29513-214 O-ring	08-10840	**$0.81**
MS29561-007	MS29561-007 O-ring	08-10841	**$3.35**
MS29561-012	MS29561-012 O-ring	08-10843	**$1.33**
MS29561-218	MS29561-218 O-ring	08-10848	**$0.91**
MS29561-222	MS29561-222 O-ring	08-10849	**$1.31**
MS29561-223	MS29561-223 O-ring	08-10850	**$3.50**
MS29561-248	MS29561-248 O-ring	08-10853	**$2.65**
MS35692-10	MS35692-10 Nut	08-10855	**$7.50**
MS35692-2	MS35692-2 Nut	08-10856	**$5.55**
MS35756-5	MS35756-5 (2)woodruff Key	08-10857	**$1.35**
MS35756-6	MS35756-6 Key	08-10858	**$1.35**
MS35842-13	MS35842-13 Clamp	08-10861	**$4.75**
MS39326-20	MS39326-20 Hose Clamp	08-10862	**$3.85**
MS49005-2Z	MS49005-2z Plug	08-10864	**$1.29**
MS49005-4Z	MS49005-4z Plug	08-10865	**$2.36**
MS51095-333	MS51095-333 Bolt, Hex, Drilled Head	08-10866	**$7.50**
MS51527A6	MS51527a6 Elbow	08-10867	**$21.50**
MS51528A6	MS51528a6 Elbow	08-10868	**$22.50**
MS51990-105P	MS51990-105p Ring - Lock	08-10869	**$3.95**

Superior PN#	Description	Part No.	Price
MS9018-01/2-50	MS9018-01/2-50 Helicoil	08-10870	**$2.83**
MS90725-10	MS90725-10 Bolt	08-10873	**$0.75**
MS90725-12	MS90725-12 Bolt	08-10874	**$0.55**
MS90725-13	MS90725-13 Bolt	08-10875	**$0.75**
MS90725-3	MS90725-3 Bolt	08-10877	**$0.86**
MS90725-32	MS90725-32 Bolt	08-10878	**$1.40**
MS90725-35	MS90725-35 Bolt	08-10879	**$0.60**
MS90725-40	MS90725-40 Bolt	08-10880	**$1.40**
MS90725-5	MS90725-5 Bolt	08-10881	**$1.68**
MS90725-8	MS90725-8 Bolt	08-10883	**$0.88**
MS90725-9	MS90725-9 Bolt	08-10884	**$0.86**
MS9135-01	MS9135-01 Gasket	08-10886	**$0.77**
MS9245-25	MS9245-25 Cotter Pin	08-10889	**$0.96**
MS9388-009	MS9388-009 O-ring	08-10891	**$0.30**
MS9549-17	MS9549-17 Washer	08-10893	**$0.59**
NAS1352-6H20P	NAS1352-6h20p Screw	08-10894	**$14.95**
NAS1612-2	NAS1612-2 Packing	08-10895	**$0.65**
NAS1922-0050-3	NAS1922-0050-3 Clamp 7/16 Hose	08-10896	**$21.50**
NAS1922-0075-3	NAS1922-0075-3 Clamp	08-10897	**$19.50**
NASM21044-N3	NASm21044-n3 Lock Nut	08-10898	**$0.48**
NASM21333-100	NASm21333-100 Clamp	08-10899	**$5.80**
NASM21333-75	NASm21333-75 Clamp	08-10900	**$5.80**
NASM501-10-10	NASm501-10-10 Screw	08-10901	**$0.48**
NASM501-10-8	NASm501-10-8 Screw	08-10902	**$0.72**
O-320-A1A2	O-320-a1a2 Superior Cert Vantage Engine	08-12087	**$28,200.00**
O-320-A1AC2	O-320-a1ac2 Superior Exp Roller Lifter Engine	08-12095	**$24,778.00**
O-320-B1A2	O-320-b1a2 Superior Cert Vantage Engine	08-12088	**$28,500.00**
O-320-B1AC2	O-320-b1ac2 Superior Exp Roller Lifter Engine	08-12097	**$25,112.00**
O-360-A1A2	O-360-a1a2 Superior Cert Vantage Engine	08-12091	**$28,200.00**
O-360-A1AC2	O-360-a1ac2 Superior Exp Roller Lifter Engine	08-12100	**$24,556.00**
O-360-B1A2	O-360-b1a2 Superior Cert Vantage Engine	08-12092	**$28,500.00**
O-360-B1AC2	O-360-b1ac2 Superior Exp Roller Lifter Engine	08-12101	**$25,112.00**
	Piston 9:1 320 / 360 Engine	08-12110	**$454.00**
SA539740	Rocker Shaft SA539740	08-03685	**$24.69**
SA1000 P05	SA1000 P05 Ring	08-10904	**$7.50**
SA1000 P15	SA1000 P15 Piston Ring	08-10905	**$7.50**
SA1000	SA1000 Ring	08-10903	**$6.29**
SA1007 P15	SA1007 P15 Ring	08-10907	**$7.50**
SA10200-A22P	SA10200-a22p C-90 Millennium Cylinder	08-10910	**$980.00**
SA10204	SA10204 Valve, Exh.	08-10911	**$113.75**
SA10205-1	SA10205-1 Guide Ni-resist	08-10912	**$16.99**
SA10205-1 P05	SA10205-1 P05 Guide N1-resist	08-10913	**$18.50**
SA10205-1 P20	SA10205-1 P20 Guide Unreamed O200 X-gd	08-10915	**$17.50**
SA10205-1 P30	SA10205-1 P30 Guide Ni-resist	08-10916	**$17.50**
SA10206 P05	SA10206 P05 Ring	08-10918	**$12.50**
SA10206 P15	SA10206 P15 Ring	08-10919	**$11.85**
SA10206	SA10206 Ring	08-10917	**$11.50**
SA10209-1	SA10209-1 Guide Intake (unreamed)	08-10920	**$18.50**
SA10209-1 P05	SA10209-1 P05 Guide Intake (unreamed)	08-10921	**$20.50**
SA10209-1 P20	SA10209-1 P20 Guide Intake (unreamed)	08-10923	**$18.50**
SA10209-1 P30	SA10209-1 P30 Guide Intake (unreamed)	08-10924	**$18.50**
SA2000 P05	SA2000 P05 Ring	08-10927	**$22.50**
SA2000 P15	SA2000 P15 Piston Ring	08-10928	**$22.50**
SA2000	SA2000 Ring	08-10926	**$16.50**
SA2000-SC P15	SA2000-sc P15 Ring Set Single Cylinder	08-10930	**$61.75**
SA2024	SA2024 (4)plug	08-10932	**$3.35**
SA2025	SA2025 Plug	08-10933	**$2.86**
SA21051	SA21051 Gasket	08-10935	**$1.44**
SA2106	SA2106 Insert, Exh.	08-10936	**$29.55**
SA21153	SA21153 Shaft, Rocker Valve	08-10937	**$23.50**
SA21284	SA21284 Housing, Push Rod	08-10938	**$8.50**
SA21284 P05	SA21284 P05 Housing Pushrod	08-10939	**$8.50**
SA21477	SA21477 Packing, Cylinder BASe	08-10941	**$0.56**
SA22133	SA22133 Gasket, Oil Cooler To Adapter	08-10942	**$1.43**
SA22354	SA22354 Gear, Oil Pump Driving	08-10945	**$270.95**
SA22354-1	SA22354-1 Oil Pump Kit	08-10946	**$607.00**
SA22355	SA22355 Gear, Oil Pump, Driven	08-10947	**$387.00**
SA225	SA225 Gasket Set Top Overhaul	08-10948	**$344.00**
SA22535	SA22535 Washer	08-10951	**$1.71**
SA225-T1	SA225-t1 Gasket Set Single Cylinder	08-10952	**$45.90**
SA22949	SA22949 Bushing	08-10954	**$8.50**
SA22949 M05	SA22949 M05 Bushing, Rocker Shaft	08-10955	**$3.35**
SA22949 P05	SA22949 P05 Bushing, Rocker Shaft Boss	08-10956	**$2.71**
SA22949 P20	SA22949 P20 Bushing	08-10957	**$2.71**
SA23410	SA23410 Cover, Oil Pressure	08-10958	**$173.85**
SA24030	SA24030 Spring Valve	08-10961	**$9.51**
SA24044	SA24044 Retainer, Valve Spring	08-10963	**$3.45**
SA24239	SA24239 Washer	08-10965	**$0.59**
SA24770	SA24770 Plug, Crankshaft	08-10970	**$1.89**
SA24856	SA24856 Gasket	08-10973	**$2.29**
SA24890-A7	SA24890-a7 Gasket Set Major Overhaul	08-10975	**$116.75**
SA25001	SA25001 Seal	08-10976	**$10.90**
SA25103-A2	SA25103-a2 Gasket Set Major Overhaul	08-10978	**$212.95**
SA300	SA300 Gasket Set Top Overhaul	08-10981	**$92.75**
SA3364	SA3364 Ring	08-10982	**$18.50**
SA3364-SC	SA3364-sc Ring Set Single Cylinder	08-10983	**$57.75**
SA3365	SA3365 Ring	08-10984	**$18.50**
SA35019	SA35019 Gasket	08-10985	**$4.50**
SA352026-A1	SA352026-a1 Gasket Set Major Overhaul	08-10987	**$472.00**
SA352058	SA352058 Gasket	08-10988	**$0.69**
SA352061	SA352061 Gasket	08-10989	**$7.50**
SA352065	SA352065 Gasket	08-10993	**$1.68**
SA352066	SA352066 Gasket	08-10994	**$1.58**
SA352068	SA352068 Seal	08-10996	**$5.55**
SA352069	SA352069 Gasket	08-10997	**$6.70**

Prices Subject to Change Without Notice

Superior PN#	Description	Part No.	Price
SA352179	SA352179 Gasket, Starter Pad	08-10998	$3.99
SA3577	SA3577 Gasket	08-10999	$2.91
SA35923	SA35923 Gasket	08-11000	$4.50
SA35967	SA35967 Insert, Valve	08-11002	$24.60
SA35971	SA35971 Retainer	08-11004	$10.85
SA35972	SA35972 Bolt, Connecting Rod	08-11005	$18.75
SA35985	SA35985 Gasket	08-11006	$1.75
SA360	SA360 Gasket Set Top Overhaul	08-11007	$165.75
SA36027	SA36027 Gasket	08-11008	$3.50
SA36066	SA36066 Gear, Magneto Drive	08-11010	$535.00
SA3610-SC P05	SA3610-sc P05 Ring Set Single Cylinder	08-11014	$115.75
SA3610-SC P15	SA3610-sc P15 Ring Set Single Cylinder	08-11015	$115.75
SA3610-SC	SA3610-sc Ring Set Single Cylinder	08-11013	$116.75
SA36170 M10	SA36170 M10 Bearing	08-11016	$134.75
SA36171	SA36171 Bearing, Main	08-11017	$36.65
SA4000-SC2 P05	SA4000-sc2 P05 Ring Set Single Cylinder	08-11019	$117.75
SA4000-SC2 P15	SA4000-sc2 P15 Ring Set Single Cylinder	08-11020	$117.75
SA4000-SC3 P05	SA4000-sc3 P05 Ring Set Single Cylinder	08-11024	$78.75
SA4000-SC3 P15	SA4000-sc3 P15 Ring Set Single Cylinder	08-11025	$78.75
SA4000-SC3	SA4000-sc3 Ring Set Single Cylinder	08-11022	$109.95
SA4000-SC5 P05	SA4000-sc5 P05 Ring Set Single Cylinder	08-11027	$68.80
SA4000-SC5 P15	SA4000-sc5 P15 Ring Set Single Cylinder	08-11028	$68.80
SA4000-SC5	SA4000-sc5 Ring Set Single Cylinder	08-11026	$64.75
SA4000-SC6 P05	SA4000-sc6 P05 Ring Set Single Cylinder	08-11030	$103.80
SA4000-SC6 P15	SA4000-sc6 P15 Ring Set Single Cylinder	08-11033	$103.80
SA4000-SC6	SA4000-sc6 Ring Set Single Cylinder	08-11029	$82.75
SA4000-SC7 P05	SA4000-sc7 P05 Ring Set Single Cylinder	08-11035	$128.75
SA4000-SC7 P15	SA4000-sc7 P15 Ring Set Single Cylinder	08-11036	$128.75
SA4000-SC7	SA4000-sc7 Ring Set Single Cylinder	08-11034	$79.75
SA4000-SC8 P15	SA4000-sc8 P15 Ring Set Single Cylinder	08-11038	$47.90
SA4000-SC8	SA4000-sc8 Ring Set Single Cylinder	08-11037	$47.90
SA4001 P05	SA4001 P05 Ring	08-11040	$25.50
SA4001 P15	SA4001 P15 Ring	08-11041	$37.70
SA4001	SA4001 Ring	08-11039	$26.50
SA4003 P05	SA4003 P05 Ring	08-11043	$55.75
SA4003 P15	SA4003 P15 Ring	08-11044	$55.75
SA4003	SA4003 Ring	08-11042	$29.50
SA401870 P03	SA401870 P03 Stud	08-11048	$14.95
SA401870 P07	SA401870 P07 Stud	08-11049	$10.85
SA401870 P12	SA401870 P12 Stud	08-11050	$10.85
SA401870	SA401870 Stud	08-11047	$5.90
SA401893 P03	SA401893 P03 Stud	08-11051	$4.50
SA402151 P03	SA402151 P03 Stud, 5/16 X 1 1/4 Long	08-11054	$5.99
SA402151 P07	SA402151 P07 Stud, 5/16 X 1 1/4 Long	08-11055	$6.70
SA40762BLU	SA40762blu Valve Cover Blue	08-11057	$22.55
SA4700	SA4700 Ring	08-11059	$24.65
SA47006S-A20P	SA47006s-a20p Millennium Cylinder	08-11061	$1,384.00
SA4700-SC3	SA4700-sc3 Ring Set Single Cylinder	08-11063	$58.75
SA4700-SC5	SA4700-sc5 Ring Set Single Cylinder	08-11064	$73.75
SA4700-SC6	SA4700-sc6 Ring Set Single Cylinder	08-11065	$58.75
SA4701	SA4701 Ring	08-11066	$20.50
SA4701-SC7	SA4701-sc7 Ring Set Single Cylinder	08-11068	$67.75
SA4701-SC8	SA4701-sc8 Ring Set Single Cylinder	08-11069	$57.75
SA4705	SA4705 Assy, Ring	08-11070	$33.90
SA4705 P05	SA4705 P05 Ring	08-11071	$36.65
SA4705 P15	SA4705 P15 Ring	08-11072	$35.55
SA4707 P05	SA4707 P05 Ring	08-11075	$20.50
SA4707 P15	SA4707 P15 Ring	08-11076	$34.55
SA4707	SA4707 Ring	08-11074	$20.50
SA4709 P05	SA4709 P05 Ring	08-11078	$13.90
SA4709 P15	SA4709 P15 Ring	08-11079	$13.90
SA470-A1	SA470-a1 Gasket Set Top Overhaul	08-11080	$352.00
SA470-A2	SA470-a2 Gasket Set Top Overhaul	08-11081	$272.95
SA5000-SC5 P10	SA5000-sc5 P10 Ring Set Single Cylinder	08-11086	$108.13
SA5000-SC5 P15	SA5000-sc5 P15 Ring Set Single Cylinder	08-11087	$116.75
SA5003 P05	SA5003 P05 Ring	08-11089	$53.75
SA5003 P10	SA5003 P10 Ring	08-11090	$53.75
SA5003 P15	SA5003 P15 Ring	08-11091	$53.75
SA5003	SA5003 Ring	08-11088	$35.55
SA5004 P05	SA5004 P05 Ring	08-11093	$34.50
SA5004 P10	SA5004 P10 Ring	08-11094	$34.50
SA5004 P15	SA5004 P15 Ring	08-11095	$34.50
SA5004	SA5004 Ring	08-11092	$34.50
SA5201	SA5201 Ring	08-11101	$20.50
SA5201-SC2	SA5201-sc2 Ring Set Single Cylinder	08-11103	$66.75
SA5202	SA5202 Ring	08-11104	$23.50
SA5205A	SA5205a Ring	08-11105	$20.50
SA5208 P05	SA5208 P05 Ring	08-11107	$35.55
SA5208 P10	SA5208 P10 Ring	08-11108	$35.55
SA5208 P15	SA5208 P15 Ring	08-11109	$35.55
SA5208	SA5208 Ring	08-11106	$29.50
SA5209 P05	SA5209 P05 Ring	08-11111	$11.85
SA5209 P10	SA5209 P10 Ring	08-11112	$11.85
SA5209 P15	SA5209 P15 Ring	08-11113	$11.85
SA5209	SA5209 Ring	08-11110	$9.80
SA520-A1	SA520-a1 Gasket Set Top Overhaul	08-11114	$244.95
SA520-A2	SA520-a2 Gasket Set Top Overhaul	08-11115	$217.95
SA520-A3	SA520-a3 Gasket Set Top Overhaul	08-11116	$197.75
SA520-T1-S	SA520-t1-s Gasket Set Single Cylinder	08-11118	$22.50
SA520-T2	SA520-t2 Gasket Set Single Cylinder	08-11119	$48.50
SA520-T3	SA520-t3 Gasket Set Single Cylinder	08-11120	$17.50
SA524818	SA524818 Plug, Pipe	08-11121	$1.38
SA530058 M10	SA530058 M10 Bearing	08-11123	$73.75

Superior PN#	Description	Part No.	Price
SA530058-A4	SA530058-a4 Bearing Set	08-11124	$459.00
SA530058-A4 M10	SA530058-a4 M10 Bearing Set	08-11125	$458.00
SA530058-A5	SA530058-a5 Bearing Set	08-11126	$454.00
SA530058-A5 M10	SA530058-a5 M10 Bearing Set	08-11127	$486.00
SA530058-A6	SA530058-a6 Bearing Set	08-11128	$342.00
SA530162-S	SA530162-s Gasket, Rocker Cover	08-11131	$6.66
SA530367	SA530367 Bearing	08-11136	$9.80
SA530383	SA530383 Bearing, Connecting Rod	08-11137	$18.50
SA530383 M10	SA530383 M10 Bearing, Conn Rod Upper & Lowr	08-11138	$20.90
SA530462	SA530462 Bushing Rocker Shaft Serv	08-11139	$4.80
SA530523	SA530523 Gasket	08-11140	$2.59
SA530658	SA530658 Bushing	08-11142	$7.75
SA530830	SA530830 Assy, Pin	08-11143	$53.75
SA530856	SA530856 Piston Pin	08-11145	$147.75
SA532200	SA532200 Seal	08-03683	$2.44
SA532364-50.0	SA532364-50.0 Felt	08-11156	$5.90
SA532432	SA532432 Plug, Hex Head	08-11157	$7.75
SA532518	SA532518 Gasket	08-11158	$1.66
SA534079	SA534079 Gasket	08-11160	$9.80
SA534316	SA534316 Gasket	08-11161	$3.50
SA534740	SA534740 Gasket	08-11162	$4.80
SA534743	SA534743 Gasket	08-11163	$30.10
SA534857-S	SA534857-s Gasket	08-11166	$7.11
SA534940	SA534940 Gasket	08-11168	$0.87
SA535661	SA535661 Camshaft	08-11174	$754.00
SA535666	SA535666 Screw	08-11175	$5.35
SA535885	SA535885 Gasket	08-11177	$1.24
SA536092-A11	SA536092-a11 Gasket Set Major Overhaul	08-11179	$495.00
SA536092-A9	SA536092-a9 Gasket Set Major Overhaul	08-11181	$449.00
SA536379	SA536379 Screw	08-11182	$5.45
SA536997-A1	SA536997-a1 Gasket Set Major Overhaul	08-11185	$635.00
SA537019	SA537019 Screw	08-11186	$6.50
SA537401	SA537401 Bearing, Thrust	08-11188	$230.95
SA537401 M10	SA537401 M10 Bearing	08-11189	$406.00
SA537401-A3	SA537401-a3 Bearing Set	08-11190	$567.00
SA537401-A3 M10	SA537401-a3 M10 Bearing Set	08-11191	$991.00
SA537690	SA537690 (10)Washer	08-11192	$1.11
SA537721	SA537721 Needle Bearing	08-11193	$9.80
SA537728	SA537728 Screw	08-11194	$3.35
SA537745	SA537745 Gasket	08-11195	$3.86
SA537749	SA537749 Gasket	08-11196	$5.35
SA537870 P30	SA537870 P30 Pushrod Assy	08-11197	$36.60
SA538185	SA538185 Gasket	08-11198	$3.99
SA538304 P30	SA538304 P30 Pushrod Assy	08-11199	$59.75
SA538684	SA538684 Bushing	08-11200	$9.80
SA538804	SA538804 Gasket	08-11201	$1.31
SA539058	SA539058 Washer	08-11202	$1.06
SA539467	SA539467 Piston Pin & Plug Assy	08-11203	$52.75
SA539800	SA539800 Clutch Gear	08-11204	$224.95
SA539800 M15	SA539800 M15 Spring, Clutch	08-11205	$244.95
SA539988	SA539988 Valve, Int.	08-11206	$57.75
SA550-T1	SA550-t1 Gasket Set	08-11209	$18.50
SA625065-2	SA625065-2 Bushing	08-11210	$3.75
SA625142	SA625142 Shaft	08-11211	$38.80
SA625303	SA625303 Gasket	08-11212	$3.08
SA625393	SA625393 Retainer	08-11213	$1.03
SA625957	SA625957 Spring, Valve	08-11215	$3.75
SA625961	SA625961 Seat, Valve Spring	08-11217	$14.95
SA626049-A4	SA626049-a4 Gasket Set Major Overhaul	08-11219	$309.00
SA627246	SA627246 Bearing	08-11224	$225.95
SA627246 M10	SA627246 M10 Bearing	08-11225	$439.00
SA627246-A2	SA627246-a2 Bearing Set	08-11226	$534.00
SA627246A2M10	SA627246a2m10 Bearing Set	08-11227	$686.00
SA627368	SA627368 Gasket, Air Throttle	08-11229	$1.31
SA627731	SA627731 Key, Valve Spring	08-11233	$2.63
SA627795	SA627795 Bearing, Main	08-11234	$250.95
SA627795 M10	SA627795 M10 Bearing	08-11235	$281.95
SA627795-A3	SA627795-a3 Bearing Set	08-11236	$540.00
SA627795A3M10	SA627795a3m10 Bearing Set	08-11237	$822.00
SA628555-1	SA628555-1 Hose	08-11242	$13.95
SA628555-16	SA628555-16 Hose	08-11243	$5.55
SA628975	SA628975 Bushing	08-11246	$28.50
SA629004	SA629004 Snap Ring	08-11247	$0.39
SA629016	SA629016 Gasket, ReductIon Gear Cover	08-11248	$2.16
SA629117-1	SA629117-1 Rotocoil Assembly	08-11251	$14.95
SA629159	SA629159 Gasket, Outlet	08-11252	$1.63
SA629163-5	SA629163-5 Clamp (Not FAA/PMA Approved)	08-11253	$24.65
SA629196	SA629196 Packing	08-11254	$1.59
SA629518-3H	SA629518-3h Plug	08-11258	$8.80
SA630261-11	SA630261-11 Pin *	08-11262	$12.90
SA630261-15	SA630261-15 Pin *	08-11263	$11.85
SA630261-34	SA630261-34 Pin	08-11264	$8.50
SA630261-38	SA630261-38 Pin	08-11266	$9.80
SA630261-39	SA630261-39 Pin	08-11267	$9.80
SA630261-40	SA630261-40 Pin	08-11268	$9.80

EP

Visit www.aircraftspruce.com for a complete product listing of Superior Air Parts.

EP

INTAKE HOSES

Lycoming 1-3/4" Intake Hose
69603 ....**$8.58**

Cont. #22800 OUTER & Cont. #21185 INNER Hose (8 sets required for A-65 thru 0-300) P/N 08-03700..**$6.50**

Cont. #22800 OUTER Intake Hose
22800 ....**$4.81**

Cont. #21185 INNER Intake Hose
P/N 07-03477..**$2.13**

INTAKE GASKETS

Cont. #21327 (4) for A-65 only............ **$1.43 ea**
Cont. #22250 (4) for C-85 — 0-300 .... **$1.03 ea**

EXHAUST GASKETS

Cont.. #21493 (08-05237) for A-65 thru 0-300 SS.......................**$1.65 ea**
Cont. #632837 SS ....**$1.76 ea**
#77611 for 0-320 - not for H series SS...**$9.66 ea**

EXHAUST NUTS

Cont. #22022 (5/16-24) for A-65 thru 0-300 (8) .... **$1.25 ea**
Cont. #MS20500-428 (1/4-28) for 0-470 (12) ...... **$2.45 ea**
Lyc. #STD1410 (5/16-18).................... **$1.47 ea**

ROCKER BOX GASKETS

Cont. #530162 for A-65 thru 0-300 (4 required)...................**$5.84 ea**
Lyc. #75906 for 0-235 thru 0-320 (4 req) ....**$2.72 ea**

ROCKER BOX COVER SCREWS

Cont. #535091 (24) **$0.66 Ea**
Lyc. #STD1925 (24)**$1.22 Ea**

CYLINDER BASE SEALS

Cont. #21477 for A-65 thru 0-200 (4)................**$0.92 Ea**

MAGNETO FLANGE GASKET

Cont. #535324 ....**$7.45 Ea**
Lycoming #62224 ....**$2.20 Ea**

TACH OIL SEAL

Cont. #642714 (was #640087) for A-65 thru 0-300................. **$8.47**
Lyc. #LW14260 for 0-235, 0-290.. **$6.37**

OIL PRESSURE HOUSING GASKETS

Lyc. #61173 for 0-235, 0-290 (1) (2 with oil cooler) ....**$1.69 Ea**

CARBURETOR GASKETS

For A-65 thru 0-200 Cont. #21051 (Top) ....**$2.60 Ea**
Cont. #21323 (Bottom)**$1.35 Ea**

GENERATOR DRIVE BELT

Lyc. #60886 for 0-235, 0-290................................ **$87.27**

"O" SERIES LYCOMING VALVE COVER GASKETS

Replace the original cork gaskets which come standard on Lycoming 0-235, 0-320 and 0-360 engines. NOT FAA approved. For experimental aircraft only.
P/N 08-01187 .... **$4.95**

TCM GASKET

TCM Gasket for Magneto & Access Drive. P/N 08-07531 .... **$1.68**

ANGLED VALVE "IO" SERIES LYCOMING VALVE COVER GASKETS

These gaskets are for the fuel injected "IO" series, sometimes referred to as the Angle Valve cylinder Lycoming They are not FAA approved and are not manufactured under a PMA. These are used on Angled valve Lycoming engines IO-360, IO-540, IO-720. P/N 08-05882.. **$6.85**

652072 ALTERNATOR GASKET

TCM Alternator Gasket, Gear driven alternator mounting gasket (gasket for engine that has been converted from generator to alternator).
P/N 07-01492.................................. **$3.23**

649984 ALTERNATOR GASKET

TCM Alternator Gasket replaces Continental Motors: 352066, 632560.
P/N 07-00768 .... **$2.57**

PUSH ROD SEALS

Continental #539840 for A-65 thru 0-200 (8) ....**$6.18 Ea.**

OIL SUMP GASKET & PLUG

Cont. #532432 Plug..... **$14.50**

CRANKSHAFT OIL SEALS

Cont. #530019 for A-65 thru 0-200, Flanged Shaft..................... **$57.31**
Cont. #24321 for A-65 and C-85, Taper Shaft **$65.80**
Lyc. #76940 for 0-235, 0-290
$40.00

AN900 COPPER GASKETS

Cont. Engine Applications, A-65 thru 0-200 (1) each:
-10: Oil sump drain plug thermometer hole in oil screen, suction tube ass'y ....**$0.46 Ea**
-14: Oil relief valve ....**$0.50 Ea**
-22: Tach drive housing ....**$0.84 Ea**
-28: Oil pressure screen.....................**$0.89 Ea**

AERO-SEAL HOSE CLAMPS

Aero-Seal Clamps for Cont. Intake Hoses.
P/N QS100-M32W...............**$2.01 Ea**

PROP GOVERNOR GASKET

P/N 07-00878................................ **$19.75**

RING HOSE CLAMPS

Cont. #536388 (16) Required
$2.39 Ea

ENGINE MOUNT BUSHINGS

Cont. #22387 for A-65, C-85, C-90 except C-90-14F (8) Req'd
$3.63 Ea

Lyc. #60883 for 0-235 and 0-290, 7/8" hole (8)Req'd.......**$19.99 Ea**
Lyc. #71032 for 0-320 with 1" hole (8) Req'd
$10.56 Ea.
Lycoming, FAA Approved. Replaces #71032. Set of 8. P/N 71032 .... **$10.56**

ENGINE MOUNT WASHERS

Cont. #21530 for A-65, C-85, C-90 except C-90-14F (8) Req'd .**$12.75 Ea**
Lyc #STD619 for 0-235 thru 0-320 (8) Req'd ....**$10.92 Ea.**

CRANKSHAFT SEAL LW11997

LW11997 Crankshaft Seal. Spring is impregnated in the gasket 4-04.
P/N 08-11997 .... **$96.19**

LYCOMING PARTS TO CONVERT 0-235 WITH SPIN ON OIL FILTER TO OIL SCREEN

Oil Pressure Screen Housing
P/N 68974 .... **$615.00**
Oil ScreenP/N 62817............................ **$121.75**
Oil Screen Housing Gasket
P/N 61173 .... **$1.69**
FOR OIL COOLER INSTALLATION ADD:
SpringP/N 69436 .... **$47.50**
PlungerP/N 62415 .... **$32.50**
GasketP/N AN900-10............................... **$0.46**

Cont. Oil Screen ...... P/N 08-01544 ..... **$342.99**

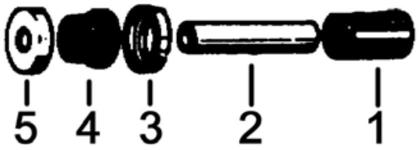
OIL COOLER PARTS SHOWN ABOVE NOT USED WITH THERMAL VALVE ASS'Y

GENERATOR ATTACHING PARTS FOR CONT. C85, C90 & 0-200

Ref.	P/N	Item	Price
#2	352068	Oil Seal	$9.01
#3	530406	653983 Hub Coupling	$369.85
#4	07-01328	Attaching 653982 Retainer	$25.43
#5	626543	Bushing*	$13.50 ea
#6	530407	Sleeve	$102.96
#7	531325	Gear	$482.33
#8	530412	Slotted Nut	$37.73
#9	352179	Starter Gasket	$6.86
#10	35019	Generator Gasket	$7.49

*Note: 626543 is sold as a pair. If only one bushing is needed, order PN 08-06218........... **$6.89**

ENGINE MOUNTING PARTS FOR CONT. C-90-14F & O-200 ONLY



Ref.	P/N	Item	Qty.	Price Each
#1	628555-16	Hose	(4)	$8.87
#2	530627	Spacer	(4)	$29.61
#3	530626	Seat	(8)	$20.50
#4	530740	Bushing	(8)	$39.13
#5	530741	Washer	(8)	$6.96
	AN6-55	Bolt	(4)	$11.50
	AN310-6	Nut	(4)	$1.31
	MS24665-283	Pin	(4)	$0.03

ALTERNATOR & GENERATOR BELTS

Lycoming ....37A19773-376 (Alt.) **$87.27**
Lycoming ....37B19774-374 (Gen.).... **$114.24**
Lycoming ....37B19774-325 (Gen.)...... **$87.27**
Continental ....539547-31.19 .... **$37.36**
Piper PA28/PA32
05-06877 .... **$49.85**

24031 VALVE SPRING

Continental Inner Valve Spring Used on C90 & O-200 Engines
P/N 07-24031...........**$14.03**

Prices Subject to Change Without Notice

CONTINENTAL ENGINE PARTS

C-85 — Price Each

639640 Bearing set, rod (2 req.)...$15.95
21477 Cyl base seal....$0.92
530917 Crankshaft seal taper....$51.80
SA402151 Ex. stud....$4.45
22022 Ex. nut....$1.25
646612 Exhaust Valve....$196.37
653728 Gasket, rocker....$5.84
632837 Gasket, no-blow....$1.76
22250 Gasket, intake....$1.03
646539-A1 Gasket set, moh....$118.95
21185 Intake hose....$2.13
641792 Intake Valve (30 degree) .$70.68
530019 Nose seal, flange sft......$57.31
530830 Piston pin....$77.95
539840 Push rod packing....$6.18
649632-A1 Ring set, steel barrel$37.39

O-200

627246-A1 Bearing set, main
639640 Bearing set, rod (2 req.) $15.95
21477 Cyl base seal....$0.92
530019 Crankshaft seal....$57.31
SA402151 Ex. stud....$4.45
22022 Ex. nut....$1.25
646612 Exhaust Valve....$196.37
530162 Gasket, rocker....$5.84
627429 Gasket, no-blow....$8.50
22250 Gasket, intake....$1.03
646539-A1 Gasket set, moh....$118.95
22800 Intake hose....$4.81
641792 Intake Valve (30°)....$70.68
646255 Piston....$364.00
530830 Piston pin....$77.95
539840 Push rod packing....$1.42
649632-A1 Ring set, steel barrel..$37.39
653394 Ring set, chrm barrel.....$26.08

O-300

639640 Bearing set, rod (2 req.) $15.95
21477 Cyl base seal....$0.92
530917 Crankshaft seal....$51.80
SA402151 Ex. stud....$4.45
22022 Ex. nut....$1.25
646612 Exhaust Valve....$196.37
530162 Gasket, rocker....$5.84
627429 Gasket, no-blow....$8.50
22250 Gasket, intake....$1.03
6465417-A1 Gasket set, moh ..$154.75
21185 Intake hose....$2.13
641792 Intake Valve (30°)....$70.68
646255 Piston....$364.00
530830 Piston pin....$77.95
539840 Push rod packing....$1.42
649632-A1 Ring set, steel barrel$37.39
625958 Springs outer....$8.96

O-470 ANGLE HEAD

653888 Camshaft follower tappet.$174.82
SSR532200 Cyl base seal....$2.44
PA641250 Crankshaft seal....$34.75
SSR401893 Ex. stud....$3.66
Ex. nut MS20500-428....$2.45
643967 Ex. nut....$2.45
SA643873 Exhaust Valve....$175.90
653191 Gasket, rocker, angle....$9.18
SSR536413 Gasket, intake....$0.43
646546-A1 Gasket set, moh....$255.95
642917-1 Intake hose....$27.70

Price Each

646263 Piston....$299.95
539467 Piston pin....$68.39
SA534610 Push rod packing....$0.74
649226 Ring set, steel barrel....$138.05
649226CP Ring set, chrm barrel$117.70
SSR539740 Rocker shaft....$24.69
637837 Spring, valve, outer....$8.89
631521 Springs, valve, inner....$5.92
SA539740 Rocker Shaft....$24.69

IO-470 ANGLE HEAD

SSR532200 Cyl base seal....$2.44
PA641250 Crankshaft seal....$34.75
SA402151 Ex. stud....$4.45
Ex. nut MS20500-428....$2.45
643967 Ex. nut....$2.45
SA643873 Exhaust Valve....$175.90
653191 Gasket, rocker, angle head....$9.18
628260 Gasket, no-blow....$10.50
SSR536413 Gasket, intake....$0.43
646546-A1 Gasket set, moh....$255.95
642917-1 Intake hose....$27.70
646283 Intake Valve....$186.43
539467 Piston pin....$68.39
SA534610 Push rod packing....$0.74
SSR539740 Rocker shaft....$24.69
SA539740 Rocker Shaft....$24.69

IO-520 TSIO-520

630826 Bearing set, rod....$9.95
653888 Camshaft follower tappet...$174.82
SSR641066 Cyl base seal....$5.28
PA641250 Crankshaft seal....$34.75
SSR401893 Ex. stud....$3.66
SSR638125 Ex. stud, rosan....$9.26
Ex. nut MS20500-428....$2.45
643967 Ex. nut....$2.45
SA643873 Exhaust Valve....$175.90
653191 Gasket, rocker....$9.18
SSR536413 Gasket, intake....$0.43
642917-1 Intake hose....$27.70
646283 Intake Valve....$186.43
654850 Piston IO-520....$302.73
630046 Piston pin....$67.66
SA534610 Push rod packing....$0.74
652148 Ring set, steel cyl IO-520..$154.28
SA539740 Rocker Shaft....$24.69

CONTINENTAL ENGINE BELTS

539547-30.00....$33.50
539547-31.19....$37.36
539547-32.00....$44.68
539547-35.00....$58.75
642759....$36.75
37A19773-376 (76026)....$87.27
37A19773-382 (74519)....$83.37
37B19774-325 (60886)....$87.27
37B19774-341 (71579)....$87.27

LYCOMING ENGINE PARTS

O-235 L,N SERIES — Price Each

69373 Bearing, rod, 8 req.....$26.77
71105 Camshaft follower tappet...$113.91
SSR62869 Cyl base seal....$4.35
STD-2180 Cyl drain hose....$4.98
LW-11997 Crankshaft seal....$36.50
SSR31C-12 Ex. stud....$4.35
STD-1410 Ex. nut....$1.47
41271
Fuel pump, mechanical....$403.00
75906 Gasket, rocker 4 required..$2.72
77611 Gasket, no-blow....$9.66
71973 Gasket, intake....$1.40
SSR61499-1
Gasket set, moh....$241.84
SSRSTD-1196
Intake hose 1-1/2”....$3.45
SSRLW-13445 Piston pin....$89.23
68028 Piston pin plug....$16.50
SSRLW-18661
Push rod packing....$3.14
LW-11800 Spring, valve outer....$25.47
SL60592 Carb. Gaslet....$0.78

O-290

69373 Bearing set, rod....$26.77
SSR71481 Cyl base seal....$2.24
SSR31C-12 Ex. stud....$4.35
STD-1410 Ex. nut....$1.47
41271
Fuel pump, mechanical....$403.00
75906 Gasket, rocker....$2.72
77611 Gasket, no-blow....$9.66
71973 Gasket, intake....$1.40
SSR69371-1
Gasket set, moh....$279.27
SSRSTD-1196
Intake hose 1-1/2”....$3.45
Intake Valve 73938....$105.41
SSRLW-18661
Push rod packing....$3.14
62916 Ring,
compression steel cylinder....$108.75
69401 Ring,
oil control steel cyl....$35.85
LW11795 Spring, Valve, inner...$16.22
LW-11800
Springs, Valve, outer....$25.47
69373 Bearing, rod....$26.77
SSR71481 Cyl base seal....$2.24
LW-11997 Crankshaft seal....$36.50
SSR31C-12 Ex. stud....$4.35
STD-1410 Ex. nut....$1.47
LW-19001 Exhaust Valve....$317.71
SL60592 Carb. Gasket....$0.78

LYCOMING CYLINDERS

O-235C,E,H chrome stud.....$1,607.00
LW15318 O320H new ass'y .$3,833.03
LW12427 O-360 new ass'y...$3,433.10
LW12988 O540/HIO360
new ass'y....$4,916.48

O-320

71973 Gasket, intake....$1.40
SSRSTD-1196
Intake hose 1-1/2....$3.45
69603 Intake hose 1-3/4....$8.58

Price Each

73938 Intake Valve....$105.41
75089
Piston, high compression....$242.46
75413
Piston, low compression....$392.28
SSRLW-13444 Piston pin....$109.19
SSRLW-18661
Push rod packing....$3.14
74241 Ring, compression
steel cylinder....$45.65
SSR73857
Ring, oil ctl steel cylinder....$27.50
SL11997 Crankshaft Seal....$36.50
SL66224 Carb. Gasket....$0.70
66224 Lyc. Carb. Gasket....$1.40
RG-72059 Dipstick Tube Base Gasket
$6.50

O,IO-360

SSA72877 Camshaft follower ..$113.29
SSR71481 Cyl base seal....$2.24
LW-11997 Crankshaft seal....$36.50
SSR31C-12 Ex. stud....$4.35
STD-1410 Ex. nut....$1.47
LW-19001 Exhaust Valve....$317.71
LW15473 Fuel pump, mech.....$422.00
75906 Gasket, rocker....$2.72
77611 Gasket, no-blow....$9.66
71973 Gasket, intake....$1.40
SSR75439-1
Gasket set, moh....$291.54
69603 Intake hose 1-3/4”....$8.58
75089
Piston, high compression....$242.46
SSRLW-18661
Push rod packing....$3.14
74241 Ring, comp steel cyl....$45.65
SSR73857
Ring, oil ctk steel cyl....$27.50
LW11795
Springs, Valve, Inner....$16.22
LW-11800
Springs, Valve, Outer....$25.47
SL66224 Carb. Gasket....$0.70

O,IO-540

SSR71481 Cyl base seal....$2.24
13792 Crankshaft seal....$19.37
SSR31C-12 Ex. stud....$4.35
STD-1410 Ex. nut....$1.47
LW15473 Fuel pump, mech. ...$422.00
75906 Gasket, rocker, most....$2.72
77611 Gasket, no-blow....$9.66
71973 Gasket, intake....$1.40
SSR71569-1 Gasket set, moh .$423.12
69603 Intake hose 1-3/4”....$8.58
73938 Intake Valve....$105.41
75089 Piston....$242.46
60828 Piston pin plugs....$16.50
SSR70310 Push rod packing....$0.68
74241 Ring, comp steel cyl....$45.65
SSR73857
Ring, oil ctl, steel cyl....$27.50
LW11795 Spring, Valve, inner...$16.22
LW-11800
Springs Valve, outer....$25.47
SL66224 Carb. Gasket....$0.70

AIRCRAFT SPRUCE CARRIES THE COMPLETE CONTINENTAL MOTORS PRODUCT LINE. SEE OUR WEBSITE FOR PART NUMBERS AND PRICING.

AIRCRAFT SPRUCE CARRIES THE COMPLETE LYCOMING PRODUCT LINE. SEE OUR WEBSITE FOR PART NUMBERS AND PRICING.

EP

CHALLENGER AVIATION HIGH-FLOW AIR FILTER W/ K&N FILTER MEDIA

Features & Benefits of Prime air filters: • 40% - 50% better airflow • Can be washed and serviced up to 25 times • Increase horse power 2%-4% •Save money and improve engine efficiency • FAA-PMA approved • Properly serviced, can be used to TBO of an engine • Ecologically sound • Better takeoff and climb-out performance • Fire retardant • Faster airspeed and/or better fuel consumption • Have been used on high performance vehicles for 40yrs • Accordion fold design provides up to 5 times the filtering surface of non-pleated designs. **PART NUMBERS WITH A -1 INCLUDE GREASE.**

Model	Application	Installation	Part No.	Price
CPE-1957	Aero Commander - A-9, A9A, A9B	Brackett BA-104 Fram CA-161PL	08-00721-1	**$219.95**
CP-1150	Aeronca - S65, S65CA, 7AC, 7ACA, 7 BCM(L-16A) ARMY, 7CCM(6-16B) ARMY, 7DC, 7EC, 7FC, 7JC, 7ECA, 7GCAA, 7GCBC, 7KC, 7KCAB, S7AC, S7CCM, S7DC, S7EC P/N CP-3274 is the installation kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106	08-00843	**$204.95**
CPE-1957	Aeronca - 7GC, 7GCA, 7HC, 7GCB, 7GCBA, 7KC	Donaldson P10-4145, Fram CA-161-PL, Air Maze 13203	08-00721-1	**$219.95**
CP-2004	Beech Baron - 95-C55 S/N TE-1 thru TE-451 except TE-50, 95-C55A S/N TE-1 Thru TE-451 Except TE-50, D55 S/N TE-452 Thru TE-492, D55A S/N TE-452 Thru TE-492, E55 S/N TE-768 Thru TE-1079, E55A S/N TE-768 Thru TE-1079 , 58 S/N TH1-TH740 No sealing grease or gasket required for this application.	Donaldson P12-7996, Air Maze 121128-2, Brackett BA-6210-1	08-01024	**$210.49**
CPE-1957	Beech Musketeer - A23A, A23, A23-24, B23, 23	Brackett BA-104, Beech 169-3	08-07101	**$242.95**
CP-1182	Bellanca - 14-19-3-A, 17-30 P/N CP-3276 Is the install kit. Use P/N CP-2602 To replace gasket at annual.	Brackett BA-8110	08-00870	**$306.00**
CPE-1957	Bellanca - 17-30A	Brackett BA-104	08-00721-1	**$219.95**
CPE-1957	Brantly B2B	Fram CA161PL	08-00721-1	**$219.95**
CP-1150	Cessna - 120, 140, 150, 150A-M, A150K, A150L, A150M, 152, A152 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106, Donaldson P10-7150, Cessna C294510-0201	08-00843	**$204.95**
CP-1172	Cessna - 170, 170A, 170B, 172, 172A-G, H, I, K, L, M, N, P, Q P/N CP-3274 Is the install kit. Use P/N CP-2302 To replace gasket at annual.	Cessna C294510-0301, Donaldson P10-7172, Brackett BA-5110	08-00902	**$219.00**
CPE-1173	Cessna - 172R, S	Donaldson P198281, Fram 3559	08-00894-1	**$232.95**
CP-1182	Cessna - 180, (exception 1953-1955 models), 180A-H, 180J-K, 182, 182A-H, 182J-R, T182T S/N T18208001 AND ON, 182T S/N 18280945 AND ON, 185, 185A-E, A185E, A185F P/N CP-3276 Is the install kit. Use P/N CP-2602 To replace gasket at annual.	Cessna 0750038-1-4, Donaldson P10-6150, Brackett BA-8110	08-00870	**$306.00**
CPE-1202	Cessna - 182S, S/N >s 18280001 thru 18280944	Donaldson P19-8290, Fram CA3717	08-00903-1	**$211.95**
CPE-1178	CIRRUS - SR-20, SR-22 No sealing grease required for this application.	Brackett BA-111	08-01221	**$251.95**
CPE-2175	CIRRUS - SR-22 with STC SA10925SC	BA-111	08-07404	**$203.95**
CP-2175	GREAT LAKES - 2T1A-1, 2T1A-2	12009, P57A, AC-6486197 BA-101	08-06282	**$189.95**
CP-4423	ENSTROM HELICOPTER - F-28A	CA151PL, A86A, AFP5	08-07388-1	**$207.95**
CPE-1040	GRUMMAN - AG CAT G164B	Brackett BA-105	08-00717-1	**$210.95**
CPE-1957	LAVIA S.A. - PA25, PA25-235, PA25-260(PRIOR TO S/N 1477)	Fram CA-161PL, Brackett BA-104	08-00721-1	**$219.95**
CP-1150	LUSCOMBE - 8, 8A, 8B, 8C, 8D, 8E, 8F, T-8F P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106	08-00843	**$204.95**
CP-1172	MAULE - M-4, M-4T, M-4C, M-4S, M-4-180C, M-4-180S, M-180T, M-4-220, M-4-220C,M-4-220S, M-4-220T, M-5-180C, MX-7-160, MX-7-180,M-5-210C, M-5-235C, M-5-210TC, M-5-220C, M-6-180, M-6-235, M-7-235 P/N CP-3274 Is the install kit. Use P/N CP-2302 To replace gasket at annual.	Brackett BA-6110, Donaldson P12-6491	08-00902	**$219.00**
CPE-1178	MAULE - M-4-210, M-4-210C, M-4-210S, M-4-210T, M-5-210C No sealing grease required for this application.	Brackett BA-111	08-01221	**$251.95**
CP-1150	MOONEY - M10 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106, Donaldson P12-0494	08-00843	**$204.95**
CP-1172	MOONEY - M20, M20A, M20B, M20C, M20D, M20G P/N CP-3274 Is the install kit. Use P/N CP-2302 To replace gasket at annual.	Fram 13219, Brackett BA-6110, Donaldson P12-6491	08-00902	**$219.00**
CP-1176	MOONEY - M20 E,F REPLACEMENT GASKET P/N-CP-2802	Donaldson P10-4065 Brackett BA-6310	08-01031	**$235.95**
CP-1174	MOONEY - M20J (201)	BRACKET BA-6210	08-00896	**$213.69**
CP-1175	MOONEY - M20K S/N 25-1000 & UP	Donaldson P13-6287	08-01020-1	**$212.95**
CPE-1179	MOONEY - M20M, M20R, M20S	MOONEY 600417-503, AM EDD4028, Donaldson P524257	08-01263-1	**$213.95**
CPE-1151	PIPER - PA-18 S/N 18-6964 and up O-320	PIPER 454-118, FRAM CA-122PL, BRACKETT BA-112	08-01032-1	**$203.95**
CPE-1040	PIPER - PA28R-180, PA28R-200, PA28R-200T, PA28R-201, PA28RT-201, PA28R-201T, PA30, PA-34-200, PA39, PA44-180, PA44-180T	Piper 460-630 Brackett BA-105	08-00717-1	**$210.95**

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Prices Subject to Change Without Notice

CHALLENGER AIR FILTERS

CHALLENGER AVIATION HIGH-FLOW AIR FILTER W/ K&N FILTER MEDIA

(CONTINUED FROM PREVIOUS PAGE)

Model	Application	Installation	Part No.	Price
CPE-1957	PIPER - PA23-235A, PA23-235B , PA23-250B, PA-24 S/N 1479 and up, PA24-180 S/N 1477 and up, PA24-250 S/N 1477 and up, PA24-260, PA25-150, PA25-235, PA25-260 PRIOR TO S/N1477, PA28-140, PA28-150, PA28-160, PA28-180 ,PA28-181,PA28RT-201T, PA28-235,*PA32-260,*PA32-300 S/N 32-7640001 & UP, *PA32R-300, *PA32RT-300, *PA32RT-300T, *PA32R-301 (SP), *PA34-200T, *PA34-220T, *PA36 W/CONT. *COVER PLATE CPE-0528 MAY BE REQUIRED WHEN REPLACING Brackett FILTER.	Fram CA-161PL, Piper 460-632, Brackett BA-104, PURO AFP-2, AC-6485710	08-00721-1	**$219.95**
CP-1150	PIPER - J3, J3C-65, J3C-65S, J5A, J5A-80, PA-11, PA-11S, PA-12, PA-12S, PA-16, PA-17, PA-18, PA-18A, PA-18S, PA-18-105, PA-20-115 PA-20-135, PA-22-108,PA-22-135, PA-22-150,PA-22-160, PA-38-112 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106, Piper 460-638	08-00843	**$204.95**
CPE-1956	PIPER - PA28-151, 161 REPLACEMENT GASKET P/N CP-2604.	Brackett BA-16, Piper 560-679	08-01033	**$195.46**
CP-3202	PIPER - PA-31-300, PA31-310, PA-31-325, PA-31-350, PA-32RT-300T	460-817 560-747 P10-6590	08-07405	**$223.95**
CP-1150	REIMS/(Cessna) F150G, F150H, F150J, F150K, F150L, F150M, FA150K, FA150L, F152, FA152 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Cessna C294510-0201 Brackett BA-4106 Donaldson P10-7150	08-00843	**$204.95**
CP-1172	REIMS/(Cessna) - F172D, F172E,F172G, F172H, F172K, F172L, F172M P/N CP-3274 Is the install kit. Use P/N CP-2302 To replace gasket at annual.	Cessna C294510-0301 Brackett BA-5110 Donaldson P10-7172	08-00902	**$219.00**
CPE-1220	ROBINSON - R-44	ROBINSON C771-1	08-00720-1	**$206.95**
CP-4422	ROBINSON - R44 II	C-771-2	08-07380-1	**$228.95**
CPE-1104	ROBINSON - R-22	ROBINSON A771-1 Brackett BA-110	08-01021-1	**$210.95**
CP-2100	ROCKWELL COMMANDER - 100-180, 112, 112B	124748-019 Brackett BA-3910	08-05915	**$199.95**
CP-1172	SOCATA - TB9, TB10 P/N CP-3274 Is the install kit. Use P/N CP-2302 To replace gasket at annual.	Brackett BA-5110	08-00902	**$219.00**
CP-1150	TAYLORCRAFT - BF65, BF12-65, BFS65 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106	08-00843	**$204.95**
CP-1150	TIGER AIRCRAFT/LLC/GULFSTREAM AMERICAN - AA-1, AA-1A, AA-1B, AA-1C, AA-5 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4210 AMS13202	08-00843	**$204.95**
CP-1960	TIGER AIRCRAFT / GULFSTREAM AMERICAN - AA5A	Brackett BA-19	08-07307	**$190.84**
CP-1958	TIGER AIRCRAFT/GULFSTREAM AMERICAN - TIGER AA-5B	Brackett BA-4106	08-01022-1	**$210.95**
CP-1150	UNIVAIR - A-2, A2A (FORNEY) F-1, F-1A - P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106	08-00843	**$204.95**
CP-1150	GLOBE/SWIFT - SWIFT GC-1A, GC-1B P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106	08-00843	**$204.95**
CP-2010	WACO AIRCRAFT - UPF-7	22756-B	08-07389-1	**$209.95**

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CHALLENGER AIR FILTER ACCESSORIES

Aircraft	Type	Challenger Part No.	Part No.	Price
CP-2003 Beech Bonanza	Gasket	CP-2502	08-01041	**$9.95**
CP-2055 Beech Baron 55, A55, B55	Gasket	CP-1505	08-07357	**$7.75**
CP-2175 Cessna 175, 175A-C	Gasket	CP-2775	08-07358	**$7.65**
CP-2182 Cessna R182, TR182, T182	Gasket	CP-2782	08-07360	**$7.65**
CP-1150 Cessna 140, 150, 152	Gasket	CP-2402	08-01043	**$9.95**
CP-1172 Cessna 170, 172	Gasket	CP-2302	08-01044	**$9.95**
CP-1182 Cessna 180, 182, 185	Gasket	CP-2602	08-01045	**$9.95**
CP-1177 Cessna Cardinal 177	Gasket	CP-1504	08-01264	**$9.95**
CP-1178 Cirrus SR-20, SR22	Gasket	CP-2902	08-07364	**$6.50**
CP-1176 Mooney 20E, F	Gasket	CP-2802	08-01047	**$9.95**
CP-1174 Mooney M20J	Gasket	CP-2202	08-01048	**$9.95**
CP-5502A Air Tractor AT-502A / AT-602	Gasket	CP-2705	08-07361	**$14.75**
CP-5502 Air Tractor AT-402/502/502B/503A	Gasket	CP-2704	08-07359	**$7.25**
CPE-1956 Piper PA-28-151, 161	Gasket	CP-2604	08-01046	**$9.95**
CPE-1957 Piper Oval Cover	Gasket	CP-2102	08-01049	**$9.95**
CPE-1040 Piper Round	Gasket	CP-2702	08-01050	**$9.95**
CPE2003, CP1177, CP1182	Installation Kit	CP-3276	08-01040	**$25.95**
CP1150 & CP1172	Installation Kit	CP-3274	08-01039	**$19.85**
All Models	Re-Charger Kit	CP-99-5050	08-05884	**$14.95**
* Various Models	Sealing Grease	CP-99-0704	08-04954	**$15.95**

CHALLENGER RE-CHARGING KIT

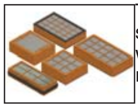
Challenger's recharger kit includes non-aerosol bottles of air filter cleaner and air filter oil for recharging air filters. Restores airflow efficiency.
P/N 08-05884 .... **$14.95**

CHALLENGER SEALING GREASE

K&N Sealing Grease provides an airtight fit around sealing surfaces on all types of air filter elements. It resists heat and will not melt or run off. K&N sealing grease is not to be used on clamp-on filter elements. 6 oz. Squeeze Tube. P/N 08-04954 .... **$15.95**

If you do not see your application here, or for more CHALLENGER AIR FILTER ACCESSORIES, please call or VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM

BRACKETT AIR FILTERS



The specially treated polyurethane element in the Brackett filter assures near total protection from any foreign material entering the system. Repels water, fire retardant and has good air flow for proper fuel/air ratio. Has no pleats to collect dirt. Low-cost maintenance with increased engine life. FAA approved. Replace original air filter unit with a Brackett assembly. Thereafter, throw away element and replace with new one at minimal cost.

Aircraft Model Assy	Air Filter P/N	Assy Price	Element Part No.	Element Price
Aero Commander: A9, A9A, A9B	BA104	$31.95	BA3	$15.75
100-100A	BA8910	$72.75	BA8905	$11.85
100-180,112,112A,112B	BA3910	$70.75	BA3905	$16.90
112TC,112TC-A,114,114A	BA4010	$74.75	BA4005	$17.85
500A-B,560F,680F,FL,FLP,500U	BA151	$83.75	BA151E	$21.50
560, 560A, 560E, 680 - L	BA2610L	$76.80	BA2605L	$20.50
560, 560A, 560E, 680 - R	BA2610R	$76.80	BA2605R	$20.50
Aircoupe: 415C, CD, D, E, G	BA8810	$49.75	BA8805	$10.70
F-1, A-1, A2-2	BA4106	$62.90	BA4108	$8.75
Beech: 23, A23, A23A, A23-19	BA104	$31.95	BA3	$15.75
A23-19A, A-23-24, B23	BA104	$31.95	BA3	$15.75
C-23, C24R, A24R, B24R, B19	BA7510	$73.75	BA7305	$14.70
33, A33, B33, C33, E33, F33	BA7110	$74.75	BA7112	$15.80
C33A,E33A,E33,F33A,F33C,G33	BA7210	$74.75	BA7112	$15.80
35, A35, B35 thru S/N2605	BA7310	$80.75	BA7305	$14.70
B35,C35,D35,E35,F35,G35,H35,J35	BA7110	$74.75	BA7112	$15.80
K35, M35, N35, P35, 35R	BA7110	$74.75	BA7112	$15.80
S35 thru S/N D7671	BA7410	$73.75	BA7112	$15.80
S35, V35, V35A, V35B,36,A36	BA7210	$74.75	BA7112	$15.80
A36TC, B36TC, A45(T-34)	BA7210	$74.75	BA7112	$15.80
B45((T-34A), D45(T-34B)	BA7210	$74.75	BA7112	$15.80
W/STC SA1450 SW Cont.IO-52O	BA7210	$74.75	BA7112	$15.80
50,B50,C50,D50,D50A,D50B,D50C,D50E	N/A	$42.75	BA4805	$20.50
E50 (L-23D, RL-23D),F50	BA100	$106.80	BA7	$19.99
55, A55, B55	BA7610	$76.75	BA7605	$17.50
G50, H50, J50	BA100	$106.80	BA7	$19.99
C55, D55, E55, 355	BA6210-1	$72.75	BA6205	$14.85
S/N TE768-1078 58 thru S/N TH 740	BA6210-1	$72.75	BA6205	$14.85
E55, 355A, SN TE-1079 & up	BA7710	$74.75	BA7705	$18.50
58, 58A, SN TH741 & up	BA7710	$74.75	BA7705	$18.50
A65, 70, 65-B80, B88	BA100	$106.80	BA7	$19.99
76	BA7010	$77.90	BA7005	$14.50
77	BA2010	$64.75	BA6108	$10.85
95, B95, B95A, D95A	BA7810	$72.75	BA7805	$18.75
Bell:				
47G-2,47G2A,47G2A-1,47G-3,47G-3B	BA102	$37.99	BA2	$21.50
47G-3B-1,47G-3B-2,47G-3B 2A,47J,47J-2	BA102	$37.99	BA2	$21.50
47J-2A,47G-3B,47G-3B,47G-3B-1	BA102	$37.99	BA2	$21.50
47G-3B-2,47G-4,47G-4A,47G-5,47J-2,47J-2A	BA103	$58.75	BA9	$26.75
Bellanca: 14-19-3A, 17-30	BA8110	$86.75	BA8103-1	$19.50
17-30A	BA104	$31.95	BA3	$15.75
Brantly: B-2, B-2B	BA104	$31.95	BA3	$15.75
Cessna: 340,340A,402C,414,414A	BA109	$66.75	BA22	$25.50
402B,SN0801 & after,421,T310R	BA108	$74.75	BA13	$28.65
421A, 421B, 421C, T310R	BA108	$74.75	BA13	$28.65
337,337A-H,R172K,F337E-H,336,T41B-D	BA111	$82.75	BA24	$19.50
P337, T337 Rear Engine,172RG	BA5810	$81.75	BA5805	$15.70
R182, TR182, T-182, FR182	BA2510	$83.75	BA2505	$21.50
190, 195, 195A, 195B	BA8410	$94.99	BA8405	$31.65
120,140,140A,150,150A-M,152,152A	BA4106	$62.90	BA4108	$8.75
170, 170A-M,172, 172A-M	BA5110	$69.75	BA6108	$10.85
172N, 172P, F172N, F172P	BA5110A	$69.75	BA6108	$10.85
175, 175A-C, L-19	BA101	$87.75	BA8	$12.80
177, 177A, B, RG, F177RG	BA5710	$88.75	BA5705	$11.85
180 ('53-'55)	BA8010	$74.75	BA8005	$13.50
180A-K,182,182A-R,F182P,F182Q	BA8110	$86.75	BA8103-1	$19.50
185,185A-E,A185E,A185F	BA8110	$86.75	BA8103-1	$19.50
188, 188A	N/A	--	BA14	$24.60
205,205A,210,210A,B,C,310A,B,C,D	BA2110	$89.95	BA2305	$19.50
P206A-E, U206A-G, 207, 207A	BA2210L	$92.75	BA2205-L	$21.50
210D-N (to SN 64535 w/o air)	BA2210L	$92.75	BA2205-L	$21.50
210D-N (to SN 64535 w/o air)	BA2210R	$96.75	BA2205-R	$22.50
210N(SN645436 & up w/air),210R,T210F–N	BA2410	$91.75	BA2405	$35.85
P210 All	BA8710	$98.75	BA8705	$18.50
310F thru L	BA2310	$96.75	BA2305	$19.50
310N-Q, T310P, T310Q, 401 S/N 145-401B S/N 221, 402 S/N 145-402B S/N 800	BA107	$71.75	BA12	$25.50
F150GthruM,FA150K-L,F152,FA152	BA4106	$62.90	BA4108	$8.75
R172K, FR172E-K	BA111	$82.75	BA24	$19.50
TP206,TP206A-E,TU206A-G,T207,T207A	BA2410	$91.75	BA2405	$35.85
411, 411A	BA-3810	$79.99	BA3805	$20.60
Bobcat T-50, AT-17, UC-78, JRC-1	N/A	---	BA2705	$23.50
Champion: 7GC,7GCA,7GCBC,7HC	BA104	$31.95	BA3	$15.75
8KCAB,8GCBC,7KCAB,7GCBC,7GCAA	BA8110	$86.75	BA8103-1	$19.50
7GCAA,7GCBC,7KCAB,8KCAB,7ECA	BA106	$32.50	BA11	$14.50
7ECAw/Cont.0-200-,7ACA,7ECA,7FC,65CA	BA4106	$62.90	BA4108	$8.75

Aircraft Model Assy	Air Filter P/N	Assy Price	Element Part No.	Element Price
Cirrus: SR20 & SR22 Non-Turbo	BA111	$82.75	BA24	$19.50
DeHavilland: DHC-2 (L-20)	BA8210-1	$111.75	BA8205	$31.60
Great Lakes: 2TIA-2	BA101	$87.75	BA8	$12.80
Helio: H295	N/A	---	BA21	$33.75
Hiller: UH-12, UH-12-E	BA102	$37.99	BA2	$21.50
Grumman American				
AA-1,AA-1A,AA-1B,AA-5,AA- 1C,AA-5	BA4210	$62.99	BA4108	$8.75
AA-5B-Tiger, GA-7, G164B	N/A	---	BA20	$19.50
AgCat, G164, G164A	BA8210	$101.75	BA8205	$31.60
AA5A	N/A	---	BA19	$13.90
Hughes: 269A,269A-1,269B-C	BA102	$37.99	BA2	$21.50
Lake: LA4, LA4-200	BA3110	$76.75	BA7305	$14.70
Luscombe: 8, 8A thru 8F, T8F	BA4106	$62.90	BA4108	$8.75
Maule: M-4-210T, M-5-210C	BA111	$82.75	BA24	$19.50
M-4-210,M-4-210C,M-4-210-S	BA111	$82.75	BA24	$19.50
MA-4, M-4C, M-4S, M-4T	BA6110	$83.75	BA6108	$10.85
M-4-220, M-4-220C, M-4-220S	BA6110	$83.75	BA6108	$10.85
M-4-220T, M-4-180C, M-4-180S	BA6110	$83.75	BA6108	$10.85
M-4-180T, M-5-220C, M-5-235C	BA6110	$83.75	BA6108	$10.85
M-5-180C, M-5-210C, M-6-180	BA6110	$83.75	BA6108	$10.85
M-6-235, MX7-180, M-7-235	BA6110	$83.75	BA6108	$10.85
Mooney: M-10	BA4106	$62.90	BA4108	$8.75
M-18C	BA5110	$69.75	BA4108	$8.75
M20, M20A, B, C, D, G	BA6110	$83.75	BA6108	$10.85
M20E, F	BA6310	$72.75	BA6305	$19.90
M20J	BA6210	$70.75	BA6205	$14.85
Navion: A with (E) Series Engines	BA113	$50.50	BA25	$20.50
B: G, H, or with 10-470	BA4310	$67.75	BA4305	$12.70
North American: AT6 (SNJ)	N/A	---	BA8305	$60.85
Partenavia: P68, P68B, P68C	N/A	---	BA162E	$12.80
Piper: 600, 601	N/A	---	BA4	$33.75
J-3,J-4,J5,PA-11,11S,12,12S,16,17	BA4106	$62.90	BA4108	$8.75
PA-18,19,20,115,135,PA-22-ALL	BA4106	$62.90	BA4108	$8.75
PA-18-"150",18A-"150",18S-"150",18S-"150"	BA112	$64.75	BA13	$28.65
SN18-6964 & up w/TCDS Item 110 Installed	BA112	$64.75	BA13	$28.65
PA-23,160,24-180 up to SN1476	BA3110A	$73.75	BA7305	$14.70
PA-24-250 up to SN 1476	BA3210	$75.75	BA3205	$17.50
PA-23-235, 250, PA-25-235, 260	BA104	$31.95	BA3	$15.75
PA-28-140, 150, 160, 180, 235	BA104	$31.95	BA3	$15.75
PA-28-181, 201T, PA-28R-201T	BA104	$31.95	BA3	$15.75
PA-28RT-201T, PA-32-260,	BA104	$31.95	BA3	$15.75
PA-23-250,E23-250,SN27 2505 & up	BA115	$42.50	BA15	$18.75
PA-23-250, E23-250, w/Turbo Lyc.	N/A	---	BA3505	$21.50
PA-23-250 w/Air Research Turbo	N/A	---	BA8605	$16.60
PA-24-180 & PA-24-250 SN1477 & up	BA104	$31.95	BA3	$15.75
PA-24-25 SN103-1476 w/Piper Kit 754-285 Install	BA104	$31.95	BA3	$15.75
PA-24-260 SN4000-4802 except 24-4783	BA104	$31.95	BA3	$15.75
PA-32-300 SN76-40001&up	BA104	$31.95	BA3	$15.75
PA-32R-300,PA-32RT-300,PA-32R-301	BA104	$31.95	BA3	$15.75
PA-34-200T, 220T	BA104	$31.95	BA3	$15.75
PA-28R-201,PA-28RT-201,PA-28R-180, PA-28R-200	BA105	$37.50	BA10	$21.50
PA-28-236 S/N 28-7911283 & Up	BA2910	$67.75	BA2905	$14.95
PA-30-160	BA105	$37.50	BA10	$21.50
PA-31P, 31P-350	N/A	N/A	BA3305	$26.50
PA-38	BA4106	$62.90	BA4108	$8.75
PA-28-151,161	N/A	N/A	BA16	$10.55
PA-28-236 SN 28-7911283 & up	BA2910	$67.75	BA2905	$14.95
PA30, with Ray Jay Turbo	BA121	$42.50	BA27	$18.50
PA31, PA-31-300, -310, -325,-350	BA100	$106.80	BA7	$19.99
PA-31P, 31P-350	N/A	N/A	BA3305	$26.50
PA-32-300 w/I0-540-K1A5	BA115	$42.50	BA15	$18.75
PA-32RT-300T	BA100	$106.80	BA7	$19.99
PA-32-301T, 32R-301T	BA100	$106.80	BA7	$19.99
PA-34-200w/LYCI0360C01ES or LI0-360-C1E6	BA105	$37.50	BA10	$21.50
PA-44-180T	N/A	N/A	BA3505	$21.50
Robinson: R22	BA110	$32.50	BA23	$19.50
Stearman: All Series 75	BA118	$71.75	BA18	$33.75
Stinson: 108, 108-1, -2 ,-3	BA9110	$42.75	BA9105	$12.65
Swift: GC-1A, GC-1B	BA4106	$62.90	BA4108	$8.75
Taylorcraft	BA4106	$62.90	BA4108	$8.75
Varga: 2150A	BA4106	$62.90	BA4108	$8.75

SEE WWW.AIRCRAFTSPRUCE.COM FOR REPLACEMENT BRACKETT AIRFILTER GRILLS & GASKETS

DONALDSON AIR FILTERS

Donaldson has been the OEM source for Cessna, Piper, Beechcraft, and Maule & Mooney since the 1960's. They currently supply Cessna all of their SE Piston aircraft filters, Beech Bonanza & Baron filters, Mooney & Maul with their filters. For Piper they currently supply all of their Turbo charge aircraft with filters. Aircraft Spruce is a factory authorized distributor for Donaldson filters.

FEATURES: • High Performance Engine Intake Filters • Synthetic media: offers improved air flow and better dust capturing efficiency • Engineered to last 500 Flight Hours • Washable filter element, use compressed air/warm soapy water • Clean installation: dry media, no sticky/messy oil to trap dirt • OEM choice for GA aircraft for over 30 years • Meets All Flammability requirements per FAR 23.853 • Solid Construction with no removable parts-no loose screens, elements or screws • Exceptional wet weather performance, no oil to wash away in wet weather • Moisture passes thru the filter, doesn't build up an oiled surfaces (no oil present) • All filters starting with "P" feature our Premium Synthetic filter media • No Airworthiness Directives against Synthetic media filters • Cost efficient over the life of the filter, 3 years, 500 FH 5 cleanings

Only filters with * after part number have cellulous media

Donaldson	OEM	Description	PN	Price
P107150	C-294510-0201, 13203	C-150/152 & Various others Engine Intake air filter	08-06027	**$98.75**
P107172	C-294510-0301, 13219	C-170/172 Engine Intake air filter	08-06024	**$113.90**
P15-1936	PS600073 / 561-020	Piper PA-32R *(Engine Intake air filter)	08-06029	**$77.75**
P107336	C-294510-0401	C-172XP/ 337 Engine Intake air filter	08-06038	**$102.95**
AM102035FP	C-294510-0501	Engine Intake air filter	08-06052	**$187.75**
P106150	0750038-4	C-180/182/185 Engine Intake air filter	08-06023	**$124.75**
P131367	C-294510-0901	TR182/182R Engine Intake air filter	08-06042	**$254.95**
AM102135FP	1250704-3	C-206/207/210 Engine Intake air filter	08-06033	**$150.75**
AM102235FP	1250704-4	C-210 Engine Intake air filter	08-06046	**$158.75**
P107210	1250846-1	T206/T207/T210 Engine Intake air filter	08-06047	**$152.75**
P131364	C-294510-0801	T210N/P Engine Intake air filter	08-06049	**$147.75**
P108421	99100181	T310/320/335/401/402/421 Engine Intake air filter	08-06056	**$103.75**
P109337	C-294510-0701	337/T337 Engine Intake air filter	08-06051	**$210.95**
AM102035FP	C-294510-0501	Engine Intake air filter	08-06052	**$187.75**
P148670	C-294510-0902	T303 Engine Intake air filter	08-06053	**$178.80**
AM102735EA	9910018-2	310/401/402 Engine Intake air filter	08-06054	**$98.90**
AM102935EA	9910200-1	310R Engine Intake air filter	08-06055	**$154.75**
P128156	9913001-1	340/414 Engine Intake air filter	08-06028	**$92.95**
P128157	9910141-1	404 Engine Intake air filter	08-06057	**$172.90**
EBG03-0001	C-294501-0101	Instrument Air Filter Assembly, Cover & Filter element	08-06059	**$481.00**
P105290	C-294501-0203	Replaceable instrument Instrument air filter only, part of EBG03-0002 assy	08-06060	**$51.75**
AM103435IA	C-294501-0301	Instrument Air Filter	08-06035	**$66.95**
AM103535IA	C-294501-0302	Instrument Air Filter	08-06036	**$56.75**
P122322	169-380064-3	B19 Engine Intake air filter	08-06061	**$119.75**
P130374	45-91210, 13917	Debonair & Early Bonanza Engine Intake air filter	08-06062	**$496.00**
P105304	35-380035-5, -12	Bonanza Engine Intake air filter	08-06032	**$133.75**
P137627	35-380035-7	Bonanza Engine Intake air filter	08-06026	**$93.75**
P136680	105-389000-3	B76 Engine Intake air filter	08-06063	**$150.75**
P133881	P13-3881	B77 Engine Intake air filter	08-06064	**$169.95**
P128219	P12-8219, 122601, AM101020FP	95-55, A55, B55 Baron Engine Intake air filter	08-06065	**$81.75**
P127996	P12-7996, 121128-2, AM101120FP	C55, D55, E55 & 58 Baron Engine Intake air filter	08-06066	**$89.80**
P12-8167	96-389005-1	E55 & 58 Baron Engine Intake air filter	08-06025	**$66.75**
P108700	50-389070-15	Duke Engine Intake air filter	08-06067	**$105.75**
P124439	50-389070-23	58P Baron Engine Intake air filter	08-06069	**$60.75**
P105798	50-389070-11	A65, 70, B80 Engine Intake air filter	08-06070	**$93.75**
EBG03-0003	205538-089	Instrument air filter	08-06072	**$114.75**
EBG03-0018	101-380039-1	King Air Instrument air filter	08-06034	**$51.75**
P136602	560-584	PA-28-236 Engine Intake air filter	08-06074	**$175.75**
P138683	560-904	PA-28-236 Engine Intake air filter	08-06075	**$152.75**
P106590	560-747	PA-31 Engine Intake air filter	08-06076	**$82.75**
	460-609	PA-31P Engine Intake air filter	08-06077	**$219.95**
P136739	560-947	PA-32 Engine Intake air filter	08-06078	**$262.95**
P138580	86881-2, 560-953	PA-44T Engine Intake air filter	08-06080	**$227.95**
AM108365FP	P13-6287	M20K Engine Intake air filter	08-06081	**$194.90**
204418-156	77852	Lycoming Engine Spin on oil Filter adapter	08-06037	**$181.75**
P11-0172	C-294510-0601	Engine Intake air filter	08-06228	**$299.95**
P198281	P198281, CA3559	172R & 172S Engine Intake Filter	08-07051	**$119.75**
P198290	P198290, CA3717	182S Engine Intake Filter	08-07052	**$121.75**
P197268	P197268	T206H Engine Intake Filter	08-07053	**$185.75**
P13-0234	125997-010, BA6210	M20J Engine Intake Filter	08-07054	**$112.75**
ED04011	600417-501	M20K (s/n 25-1000 and up) engine intake Filter	08-07055	**$123.75**
ED04028	600417-503	M20M/R/S Engine Intake Filter	08-07056	**$102.80**
P10-5225	C-294501-0103	Various Instrument Air Filter	08-07057	**$45.50**
P617058	460-632	Oval Piper Filter PA28/PA34	08-07276	**$77.75**
P617053	460-630	Round Piper Filter PA28/PA44	08-07277	**$81.75**
P617774	460-629	Round Piper Filter PA23/32	08-07278	**$73.75**
--	C-294501-0201	Air Filter Assembly Cover & Filter	08-15992	**$549.00**
--	9546982 HBC, 6260A77 M0	Mooney M20J & M20K Air Filter Assembly Cover & Filter	08-15994	**$59.75**
3034507WFC	3017383, 3020967, 3022069, 3022070, 3034507, Alternate P-1035	Pratt & Whitney (Various Aircraft)	08-15976	**$141.75**
3034292WFC	3034292, 3034293, Alternate P-1010	Pratt & Whitney (Various Aircraft)	08-15978	**$95.75**
3034393WFC	3034393, 3033315, Alternate P-1011	Pratt & Whitney (Various Aircraft)	08-15981	**$76.75**
3034508WFC	3029315, 3015330, 3029316, 3020291, 3059256-01, Alternate 11-11064, P-1009	Pratt & Whitney Canada (Various Aircraft)	08-15982	**$65.75**
WF334552	3029268 Alternate 3028856, 3029267 P-1018	Pratt & Whitney Canada (Various Aircraft)	08-15979	**$149.65**
3108939-01WFC	3108939-01, Alternate P-1068	Pratt & Whitney (PT6T-3, -3B, -3BE, -6)	08-15980	**$306.00**
WF336238	3038142 P-1139	3038142 P-1139	08-15983	**$289.00**

VISIT OUR WEBSITE FOR COMPLETE AIRCRAFT APPLICATION INFORMATION.

PLEATED PAPER AIR FILTERS

These pleated paper aircraft induction air filters are manufactured in South Africa and are fully approved by the South African Dept. of Transport, Division of Civil Aviation. Strict quality control standards are enforced at all stages of manufacture. The filters feature aluminum frames and cured EA131 pleated elements with 96% micron rating. Rubber gaskets are waterproof, oil solvent, and chemical resistant. Mesh overlays are of stainless steel for enhanced strength, durability, and appearance. Not FAA approved at this time.

Part No.	Aircraft Equivalent PN	Aircraft Type	Price
08-14639	124748-019 (No Gasket)	Aero Commander 100-180, 112, 112A, 112B	$131.75
08-14638	124748-019 (121262-7)	Aero Commander 100, 100A	$131.75
08-14640	124748-036 (615045-1)	Aero Commander 112TC, 112TCA, 114, 114A	$153.85
08-14641	361-200 (126053-002)	Aero Commander 500	$138.75
08-14642	3610239	Aero Commander 500A, 500B, 560F, 680FL, 680FLP, 500U	$138.75
08-00018	P10-5304	Beech 36	$158.75
08-00020	P12-8219 (122601)	Beech 55	$122.75
08-00019	P12-7996 (121128-2) TE946 thru TE1078 TH1 thru TH740	Beech 58	$132.75
08-14646	P13-6680 (105-389000-3)	Beech 76	$157.75
08-14647	P13-3881	Beech 77	$101.75
08-14648	A-121128-1	Beech 95, B95, B95A, D95A	$123.75
08-00023	P12-8167 (96-389005-1) TE1079 & after TE741 & after	Beech E55 & 58 Late Model	$154.75
08-14644	P10-2646 (35-0035-3) Maze 122943-1	Beech S35	$164.95
08-00000	C294510-0201	Cessna 150	$137.75
08-00001	C294510-0301	Cessna 172	$153.85
08-00002	C294510-0401	Cessna 172	$152.75
08-00003	C294510-0501	Cessna 172 RG Cutlass	$152.75
08-14649	P57A (AC-6486197) Maze 12009	Cessna 175, 175A, B, C	$141.75
08-00004	C294510-0601	Cessna 177	$163.75
08-00007	0750038-4	Cessna 182	$176.00
08-00006	C294510-0901	Cessna 182RG	$164.75
08-00008	1250704-3 (Port)	Cessna 206	$261.95
08-00009	1250704-4 (Stb)	Cessna 207	$267.95

Part No.	Aircraft Equivalent PN	Aircraft Type	Price
08-00013	9910018-2	Cessna 310N, P, Q, T310P, T310Q	$147.75
08-00014	9910200-1	Cessna 310R	$162.75
08-00011	C294510-0501	Cessna 337	$148.75
08-00016	9913001-1 (108)	Cessna 402 Late Model	$170.85
08-00015	9910141-1	Cessna 414 Series	$180.75
08-00005	C294510-0801	Cessna P210	$170.75
08-00010	1250846-1	Cessna T206 & T210	$201.95
08-00012	9910018-1	Cessna T310R	$149.85
08-00021	P10-8700	Duke B60	$132.75
08-14652	13219 (CESS-3)	Mooney M20-C, M20A, B, C, D, G	$162.75
08-14650	P10-4065	Mooney M20E, F	$312.00
08-00026	125685-004	Mooney M20K	$176.75
08-14651	004028	Mooney M20R	$147.75
08-00022	P12-4439 (50-389070-23)	P Baron (58P)	$133.75
08-14653	120120 (17775-00)	Piper Aztec PA-23-160	$145.75
08-14656	460-630 (FRAM CA144PL) 638876	Piper Cherokee PA28R-201, PA28RT-201 PA28R-180, PA28R-200	$144.00
08-00029	124997-005	Piper Navajo/Chieftain (PA31)	$143.75
08-14654	32198	Piper PA23-250, PA23E-250	$123.75
08-14655	17775-02	Piper PA24-250 Up to S/N 1476	$177.75
08-14657	26874-00 P11-4419	Piper PA24-260C	$195.75
08-00033	CA161	Piper PA28 & 32 Series (PA 36 Pawnee) (PA 34 Seneca)	$148.75
08-00035	35477-00	Piper PA28-161	$129.90
08-14658	PA-560-904 (D-P12-8683)	Piper PA28-236 S/N 28-7911283 & up	$157.75
08-00034	CA162	Piper PA32 & PA23	$149.75
08-00031	560-947	Piper Saratoga (PA32-301T)	$238.95
08-00036	CA122	Piper Super Cub (PA18)	$131.75
08-00028	560-772	Piper Tomahawk	$143.95
08-00030	13681-02	Piper Tri-Pacer (PA22)	$145.75
08-00032	125196	Piper Turbo Aztec (PA23)	$177.90

AIR-MAZE AIR FILTERS

Filter for Continental for A-65 thru C-125*.
P/N A40599 .... **$85.75**
Filter for Lycoming O-235, O-290, some O-320 (advise aircraft application)
P/N A40599 .... **$85.75**
Aeronca 7AC, 11AC
P/N 2-849... **$116.75**
Carb. Intake Stud ....P/N 24306 ....**$48.76**
TCM Carb. Intake Pin..................................P/N 24308 ....**$24.49**

FOR NEW INSTALLATION - P/N 24306 & P/N 24308 ARE REQUIRED

NAPA AIR FILTER

Air Filter for 7GCA, 7GCB, 7GC, 7HC Models. Experimental Only. Direct replacement of FRAM made by NAPA.
P/N 05-06388 .... **$19.50**

Prices Subject to Change Without Notice

K&N AIR FILTERS

Our K&N Filters are the industry standard in excellence. All filters are constructed with ultra-strong molded pliable rubber flanges which absorb vibration and provide secure attachment. These flanges can be stretched up to 1/8" (3mm) to fit in-between sizes. K&N Universal air filters are available in round, tapered, and oval designs, to fit just about any application. Use the dimensioned sketch and the selection chart to find the filter best suited to your application.

Part No.	K&N Part No.	Application	Throat	Length	Dia.	Style	Price
08-01053	FRV2440	Rotax®/Bing 36mm	2"	2"	5-3/8"	Round Straight	**$66.75**
08-01273	RU0600	Mikuni 32mm	2-1/4"	4"	3-1/2"	Round Straight	**$40.75**
08-04977	RU0800	Mikuni 34mm	2-1/2"	4"	3-1/2"	Round Straight	**$43.75**
08-04980	FRC0930	Kawasaki/Mikuni 32mm	2-3/4"	3"	5"	Round Straight	**$35.95**
08-04981	FRC1250	Mikuni 36mm	2-1/4"	4"	2"	Tapered	**$48.75**
08-04978	RU2690	Rotax®/Bing 32mm	1-3/4"	2-1/2"	2"	Tapered	**$38.50**
08-01274	RC1350	Rotax®/Bing 36mm	2-1/16"	4"	3"	Round Straight	**$51.99**
08-01275	RC1200	Rotax®/Bing 36mm	2-1/16"	4"	2"	Tapered	**$46.50**
08-04979	RC2820	Rotax® 532/582 Dual Carbs	2-1/16"	3"	8-1/2"	Dual Oval	**$61.75**
08-04976	RC2720	Rotax® 503 Dual Carbs	2-1/16"	3"	8-1/2"	Dual Oval	**$64.75**
08-04977	RU0800	Mikuni 34mm	2-7/16"	4"	3-1/2"	Straight	**$43.75**
08-01278	RU2790	Rotax® 503/532 Aerobatic carb.	3-1/2"	4-1/2"	3-1/2"	Tapered	**$44.50**
08-01279	RA045V	Rotax® 912 Offset	2"	2"	5-7/8"	Round offset	**$63.75**
08-01280	RU0810	Rotax® 814 Rd. Center	2-7/16"	5"	3-1/2"	Round Centered	**$43.95**
08-04983	FRC1890	Rotax®/Bing 36mm	2-1/16"	3"	3"	Round Straight	**$51.75**
08-04984	FRC1150	Rotax®/Bing 36mm	2-1/16"	3"	3-1/2"	Round Straight	**$43.50**

K&N AIR FILTERS

Rubber end cap instead of chrome makes this filter less likely to create damage in the event of a prop strike. Also includes rubber boss for safety wire attachment.

K&N Air Filter # RC-2314 ..... P/N 08-07291 **$142.95**

See website for engine applications.

K&N ROUND AIR FILTER ELEMENTS

Description	Part No.	Price
E-3260 Filter Element	08-12162	**$49.50**
E-3450 Filter Element	08-12163	**$49.85**

K&N SQUARE AIR FILTER ELEMENTS

Description	Part No.	Price
E-33-2060 Filter Element	08-12164	**$48.50**

K&N PRECHARGER FILTER WRAPS

The K&N PreCharger® is a specially designed filter wrap made to extend the service interval of your K&N Filter when used in very dusty conditions. They are made from durable polyester material containing uniform micron openings. The PreCharger will stop small dirt particles; yet add little restriction to the airflow of the filter. The PreCharger is designed to be run dry and can be cleaned with K&N Filter Cleaner. The PreCharger is custom made to fit each application. Double stitched elastic openings assure that the PreCharger will stay in place. Available in round straight and round tapered.

22-8016PK Precharger - Straight.................. P/N 15-07233........ **$16.50**
RC-1200PK Precharger - Tapered............... P/N 15-05090........ **$19.65**

VARI-EZE / LONG EZ AIR INTAKE FILTER

NAPA #2904 air intake filter (equivalent to Purolator #AFP-177 & AC #44-8C)

P/N 2904.............. **$14.75**

OVAL AIR FILTER FOR DUAL BING 54 CARBURETOR

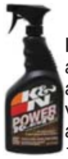
Oil impregnated, pleated, washable, polyester air filter. Can be washed and re-oiled for years. Traps dirt and other foreign particles to keep engine clean. .... P/N 15-08370 .... **$50.00**

Filter for Rotax 503................... P/N 15-08343 .... **$50.00**

K&N FILTER CHARGER OIL

K&N Air Filter Oil is the only oil specially formulated to work in combination with the cotton fabric in K&N Filtercharger elements, providing a superior air filtration system. When used as directed, it quickly penetrates the filter pleats, where it remains suspended in the cotton fabric. Saturation is maintained until the element is cleaned with K&N Air Filter Cleaner.

Description	Part No.	Price
1 oz. Pillow Pack	15-05453	**$13.50**
6.5 oz. Spray Can	08-01052	**$12.90**
8 oz. Squeeze Bottle	08-01089	**$10.95**
12 oz. Spray Can	15-08139	**$13.95**
One Gallon Refill	15-05454	**$30.70**



K&N POWER KLEEN

K&N Air Filter Cleaner is the only cleaner recommended to clean K&N Air Filter elements. Dissolves dirt build up and old filter oil and can be washed away with water. It is environmentally friendly and safe on paint, chrome, cast aluminum, plastic, rubber and vinyl when used as directed (do not use on polished or anodized aluminum). Complete instructions on bottle.

12 oz. Spray.................................. P/N 05-01944 .... **$13.50**
1 Gallon Refill................................ P/N 15-05451 .... **$29.95**
5 Gallon Pail.. P/N 08-07461 .... **$86.95**

K&N AIR FILTER SEALING GREASE

K&N Sealing Grease provides an airtight fit around sealing surfaces on all types of air filter elements. It resists heat and will not melt or run off. K&N sealing grease is not to be used on clamp-on filter elements. 6 oz. Squeeze Tube. 8 oz. squeeze tube - black ....P/N 08-01093 .... **$15.65**

K&N RECHARGER KIT

K&N Recharger® kits contain K&N air filter cleaner and air filter oil for recharging any K&N Filtercharger® Air Filter. Restores air flow efficiency so your K&N air filter performs like new! P/N 08-00722 ....**$18.50**

K&N AIR FILTER CLEANER & DEGREASER

This is the only cleaner formulated to clean K&N Filtercharger elements. The use of any other cleaning solution will void the filter's warranty, and quite possibly could damage the cotton material. Biodegradable and safe on paint, chrome, cast aluminum, plastic, rubber, and vinyl when used as directed. Complete instructions on the bottle.

NOTE: Do not use on polished or anodized aluminum.

12-fluid oz. squirt bottle .... P/N F99-0606 ....**$13.50**

GPL WASHABLE RE-USEABLE AIR FILTER FOR BING 54

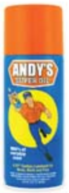
Oil Impregnated, Pleated, Washable, Polyester Air Filter. Can be washed and re-oiled for years. Fits Bing 54 Carburetor. GPL Part # 3920 For Bing 54. 3.5" D x 4" L x 2 1/16" ID

P/N 08-07665 ....**$26.50**

GPL WASHABLE RE-USEABLE AIR FILTER FOR MIKUNI 34-36MM

Oil Impregnated, Pleated, Washable, Polyester Air Filter. Can be washed and re-oiled for years. Traps dirt and other foreign particles to keep engine clean. GPL Part # 3921 For Mikuni 34—36mm. 3.5" X 4" X 2 7/16". P/N 08-07631 ....**$26.00**

ANDYS SUPER OIL LUBRICANT



Powerful Lubrication - A 21st Century Formula. Andy's Super Oil takes advantage of the latest advances in tribology (the science of lubrication) by combining a high-quality petroleum base with the finest additives, including PTFE (commonly known by the trademarked- name Teflon). PTFE is one of the most lubricious materials known and is a key element in making Andy's Super Oil the finest spray lubricant available today. 11 oz. P/N 09-04441 .... **$8.95**

MOLYKOTE 33 BEARING GREASE

Dow Corning 33 Extreme Low Temperature Bearing Grease is a thickened silicone oil; resistant to oxidation, moisture and corrosive atmospheres, inert, good shear stability and wide service temperature range.

Specifications:

- 5.3oz (150g) Tube.
- Base Chemistry: Silicone
- Flash Point: >101.1°C
- Service Temperature: -73 to 204°C
- Specific Gravity: 1.1 @ 25°C
- Viscosity Cp: 100 @ 25 °C

P/N 06-02342 .... **$29.95**

LOCTITE® HIGH TEMPERATURE GASKET SEALANT

LOCTITE® High Temperature Gasket Sealant is a slow drying viscous paste. It remains pliable and flexible and is designed to seal flanges, threaded connections and fasteners at temperatures from -45° C to +315 °C. It can be effectively applied to cork, paper, plastic and metal surfaces. Typical applications include sealing gaskets, flanges and threaded connections, aircraft heating systems, manifolds, pipe fittings, steam lines, gear boxes and cover plates..................... P/N 09-28425......**$23.75**

PERMATEX FORM-A-GASKET NO. 1

Seals and repairs a wide range of gaskets. Fills in uneven flanges surfaces. Seals pipe fittings, air ducts, boilers, plumbing connections and threaded assemblies. Dries fast, sets hard for sealing permanent or rigid assemblies. Easy to apply. Improves gasket sealing power, adds reliability to rigid or permanent assemblies. Eliminates delays.

3 oz., Tube, #1B..... P/N 09-28415....... **$5.65**
11 oz, Tube, #1C .... P/N 09-28430..... **$12.50**

PERMATEX FORM-A-GASKET NO. 2

A non-hardening, heavy-bodied, pliable sealant for semi-permanent assemblies. Use on threaded assemblies, over plates and hose connections, metal-to-metal applications. Temperature range -65° to 400° F., pressures up to 5000 PSI. Apply with putty knife or stiff bristle brush. Conforms to MIL-S-45180B Type II.

3 Oz. Tube #2B...... P/N 09-28420...... **$6.50**
11Oz. Tube #2C..... P/N 09-28400.....**$13.50**

ANDEROL ROYCO 782 HYDRAULIC FLUID

Synthetic fire resistant "Super Clean" hydraulic fluid ROYCO 782 is a red - colored synthetic hydraulic fluid developed to meet the severe duty demands of today's military and industrial equipment. Modern additive technology is employed for oxidative stability, corrosion inhibition, and anti-wear protection. ROYCO 782 is compatible with petroleum based fluids and all components used in mineral oil type hydraulic systems. Mil-Spec: MIL-PRF-83282.

Quart ....P/N 08-07539-1 ....**$13.95**
Case (24 Quarts) ......P/N 08-07539 ....**$324.00**

AVIATION FORM-A-GASKET NO. 3

A non-hardening sealant. Recommended for heating hose connections, close fitting metal parts and threaded connections. Resists water, gasoline, oils, acids and alkalies. Temperature range -65° to 400°F., pressures to 5000 PSI. Conforms to MIL-S-45180B, Type III.

4 Oz. Can #3H ...... P/N 09-28500....... **$7.50**
1 Pint Can #3D....... P/N 09-28600..... **$17.90**

GUNK SUPER CONCENTRATE DEGREASER

A concentrated self-emulsifying degreasing solvent for engine and parts. Dilute one part concentrate with nine parts of kerosine or light Diesel fuel oil for very effective cleaning. Spray or brush on. Does not harm electrical system, strip paint or cause rust. Water rinse.

Attention: Volatile Organic Compounds (VOCs) Government Regulations: Product cannot be purchased, sold or used in the states listed below. CA, CT, DC, DE, IL, IN, ME, MD, MA, MI, NH, NJ, NY, OH, PA,

SC-2A, Qt. (2 Lbs.).................P/N 09-29400 ....**$9.50**
SC-3, Gal. (8 Lbs.) ....P/N 09-29500 .....**$34.95**

GUNK "ENGINE BRITE" ENGINE CLEANER

Ready-to-use engine cleaner in convenient aerosol 15oz. can. Note: Due to environmental regulations, 09-29700 cannot be used in California. For California customers see Alternate Item.

P/N 09-29700 ....**$5.50**
For CA only..P/N 09-03767 ....**$5.75**

GUNK HYDRO-SEAL

Two-layer room temperature carbon digester and paint stripper. No flash point. Safe on all metals. Simply soak and pressure rinse or solvent rinse. 5 gal. pail contains parts soaking basket.

HS-3, 1 Gal. Can (11 Lbs.).....P/N 09-29900 .....**$96.75**
HS-5K, 5 Gal. Pail w/ parts basket (Wt. 56 lbs., truck shipment req'd) ....P/N 09-30000 ...**$183.75**

Factory-direct shipment on 50 gal. drums of Gunk and Hydro-seal. F.O.B. Charlotte, N.C.

POB #4 PERFECT SEAL SEALANT

• Used worldwide in the automotive, aircraft and marine industries • Liquid sealant designed to meet rigid requirements of OEM specifications. • Non-hardening and resists extreme temperatures. • Seals all gaskets and threaded connections. • Prevents corrosion of bolts, studs and fitting threads. • Resistant to gasoline, oils, steam, salt-water, antifreeze and propane. • Withstands temperatures from -50 F to 400 F.

4oz. ....P/N 08-07218......................**$8.50**
16oz. ....P/N 08-07217....................**$15.55**

MARVEL MYSTERY OIL

Standard for break-in on new or overhauled engines and for carbon removal from cylinder heads, piston rings, valves, etc. Mix with regular oil for perfect engine operation to -20°F. Lubricates tight nuts, control hinges and landing gear. Dust repellent.

Qt. .... P/N 09-27500 ....**$12.50**
Pint .... P/N 09-27505 ....**$9.50**
Gal. .... P/N 09-27600 ....**$39.95**

MOUSE MILK OIL

For speedy help in removal of rusted or frozen studs, nut and bolts; frees up cables, slides and linkage; unequalled wherever a lubricant and penetrant are required. Lasting lubricating qualities.8 Oz ....P/N 09-39608......................**$5.95**
32 Oz ....P/N 09-39632....................**$18.50**

BENDIX MAGNETO GREASE

#10-27165 - Factory recommended lubricant for bearings in Bendix magnetos.

1 Lb. Can.................... P/N 10-27165 .... **$79.83**

#10-391200 - For use on distributor block bushing. Provides proper shaft lubrication.

8 oz. can................................... P/N 10-391200 .... **$79.95**

#10-86527 - High temperature breaker/cam lubricant

P/N 10-86527 .... **$54.95**

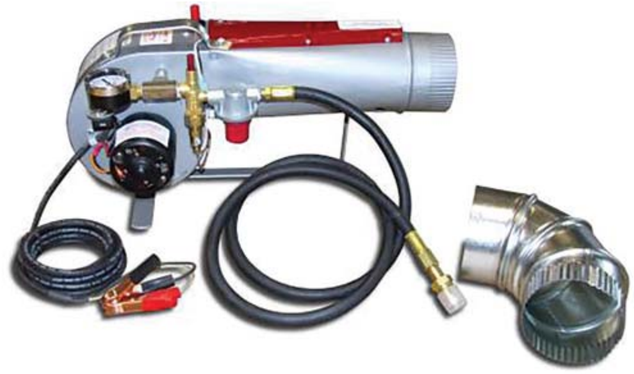
AIM-A-SQUIRT

To apply lubricants, corrosion inhibitors and solvents in those hard to reach areas without getting the products all over everything. P/N 09-02325......................... **$11.50**

EP

Prices Subject to Change Without Notice

RED DRAGON ENGINE PREHEATERS



Model	Description	Part No.	Price
MH300	Originally developed for Alaskan Bush Pilots, RED DRAGON® Engine Preheaters have been favored by pilots for over 30 years. Not just for aircraft, but for any engine subjected to low temperatures – perfect for construction, farm and oil field equipment. All preheaters are safe, easy to use and burn clean efficient propane. Available in 12 volt D.C. or 115 volt A.C. models, Red Dragon Preheaters are the best around. Each Preheater is tested before leaving the factory. • Fully Assembled • Compact & Lightweight • Full Safety Features • Push Button Ignition • Fueled by Clean, Efficient Propane • Sturdy Steel Construction • Made in the U.S.A.	08-04300	**$389.00**
MH310	Use these Preheaters anywhere electrical outlets are available. Perfect for in the hangar, garage or machine shop. These units include full safety features and push button ignition. Safety features include safety shutoff valve, adjustable regulator and excess flow safety P.O.L. tank fitting. Each unit includes a 5' power cord and a 5' fuel hose to connect to any refillable LP-Gas cylinder. For added safety, an optional high limit heat sensor located near the air outlet will shut off fuel to the burner if the preheater surface temperature exceeds safe levels. A soft carrying case is also available for easy transport.	08-04305	**$359.00**
H175	A complete 12 volt D.C. preheater package with almost everything necessary to put your Red Dragon® into operation plus a sturdy dolly for easy transportation. Comes equipped with the LT 2-12 MH 300 preheater. These units include safety features and push button ignition. Safety features include safety shutoff valve, adjustable regulator and excess flow safety P.O.L. tank fitting. Each unit includes a 10' power cord with alligator clips to quickly attach to your battery source and a 5' fuel hose to connect to any refillable LP-Gas cylinder. For added safety the LT 2-12 MH 300 has an optional high limit heat sensor located near the air outlet and will shut off fuel to the burner if the preheater surface temperature exceeds safe levels. These kits also come complete with a sturdy H-125 Cylinder Dolly w/battery bracket and battery box, 20 pound cylinder and 6' of heavy duty ducting. Just add fuel to the cylinder and a battery and you're ready to go!	08-04315	**$549.00**
	RED DRAGON ACCESSORIES		
--	***Heat Ducting*** **-** 12' long x 4" diameter; Heavy-Duty Flexible Ducting.	08-04310	**$109.95**
--	6'Lx4" Dia. Heavy-Duty Flexible Ducting.	08-04325	**$79.95**
--	Carrying Case - Strong Plastic Case with lock, for model MH300. (20.25"x 9.5"x 9.5")	08-04320	**$53.75**
--	12V Cigarette Lighter Adapter Plug	08-04330	**$16.95**
--	Propane Quick Disconnect set - For Rapid Connect & Disconnect of Fuel Line from Propane Bottle w/o Tools (even under pressure)	08-04340	**$21.95**
--	Propane Bottle - Std. Refillable Bottle (5 Gal. Cap. or 20 Lbs.) Supplies Min. 2 Hours of Heating. (Empty)	08-04351	**$55.00**
--	Soft Carrying Case - This soft carrying case is for 115V preheaters only.	08-01218	**$21.95**
--	Red Dragon Disposable Cylinder Adapter - Has a shut off valve and is disposable usually for 1 preheat.	08-01295	**$28.95**

E-Z HEAT AIRCRAFT ENGINE PREHEATERS

Preheating engines for winter operations is at best a miserable chore and at worst can be a disaster for the plane, the pilot & flight operations - until the development of the E-Z Heat Aircraft Engine Heater. The E-Z Heat was designed to provide very efficient engine heating for virtually all propeller driven aircraft. The heaters consist of a flexible synthetic pad that easily conforms to the contours of the oil pan. This pad will heat 12 qts of oil from -40° to +60°F in an hour while using approximately 300 watts of electricity. The heater is 1/32" thick. which enables the immediate heat transfer from heater to engine.

The heaters are thermostatically controlled, so leaving them plugged in overnight means the plane will be ready to go in the morning. Normally, complete pre-heating takes only 3-5 hours for the entire engine to be nice and warm. With this new lighted plug, the owner simply needs to look out the window or peek in the hangar to see if they remembered to plug in their E-Z Heat engine pre-heater. Molded into the male plug end is a newly designed light emitting diode (LED). This LED allows the operator to visually recognize if there is electrical power to the preheat system even from a distance. FAA approved for certificated aircraft.

End your cold weather starting problems and reduce premature engine wear with the installation of our proven

Specifications:

Power Consumption: 300 watts or less / Thermostatically Controlled

Power Requirement: 110/120 volts (models 441 and 540 are available in 220 volts).

Installation: The adhesive is already on the pad. All you need to do is peel and stick it on! (excluding model 470)

Preheat Time: 3 to 5 hours on cold soaked engine, although, since unit is thermostatically controlled, it may be left on overnight, or all the time. Cowl covers and prop covers are recommended for extreme cold weather, they also reduce preheat time.

Lite Brite Plug: With this new lighted plug, the owner simply has to look out the window or peek in the hangar to see if they remembered to plug in their E-Z Heat engine pre-heater! (excluding model 470)

Weight: Only 9 ounces!

Heat Transfer: Convection/conduction, the safest way of heat transfer available. No flames or glowing elements are potential fire hazards.

P/N	Application	Heater #	Price
07-00756	Cont. A-65 to o-200 (round) Use on round kidney shaped oil sumps	360	**$149.00**
07-05315	Cont. A-65 to 0-200 (rectangle) Use on flat oil sump surface	270	**$149.00**
07-05100	Cont. C-125 to 0-300, E-165 to E-225, IO-360 to TI0-360 Lyc. 0-235, 0-290, 0-320*	440	**$149.00**
07-05200	Cont. 0-470, I0-470, 0-520, I0-520 Lyc. 0-320*, 0-360, I0-360, 0-540, I0-540C, D, T10-540C	441	**$149.00**
07-01320	Cont. O-470, IO-470, O-520, IO-520	470	**$149.00**
07-05210	Lyc. IO-360A & C Series	442	**$149.00**
07-05345	Cont. 0-470, I0-470, 0-520, I0-520 I0-550 Lyc. 0-540, TIO-540	411, 440 or 540	**$175.00**
07-05345-2	(except C), I0-720	220V	**$175.00**
07-05200-2	Model 441 - 220Volt	441-2	**$149.00**

**** Except H and Rear Carbs***

E-Z HEAT 912 ENGINE PREHEATER

The E-Z Heat Engine Preheater system fits the Rotax motors and many other light sport aircraft on the market today. The system consists of two heater pads connected with a common "Light Bright" power cord. Installation is easy by peeling and sticking a pad on both the sump and on the oil tank to assure the engine gets the proper amount of heat. P/N 07-01860 ....**$149.00**

MAXPREHEAT PRE HEATERS

Extend-A-Stay mode for the Model MPH12VDC or MPH24VDC unit. Designed to allow you extra time on the ground. Once you land, hook up the device per instructions, and you will have many more hours of "on the ground time". In an emergency this unit can get your engine up to a starting temperature in an hour or so. Coming from a cold engine condition with everything in place as described, this can be an actual life saver. You will need to decide on settings, placements and other parameters based on your local conditions.

12VDC .... P/N 07-17783 ....**$169.95**
28VDC .... P/N 07-17785 ....**$169.95**
120VAC .... P/N 07-17784 ....**$189.95**

EP

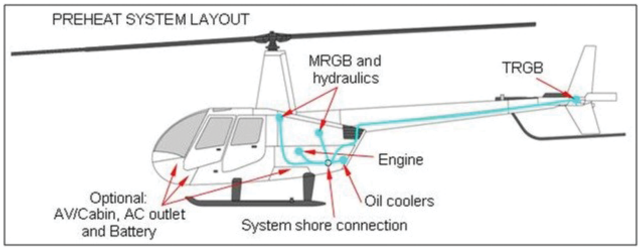
TANIS PREHEAT SYSTEMS

TANIS CONTINENTAL / LYCOMING PREHEAT KITS

Engine Preheat Kit for 4 / 6 / 8 Cylinder Continental and Lycoming engines. This preheat kit contains threaded heat elements located in each cylinder assembly and one pad heat element on the engine crankcase/oil sump/tank. This multi-point configuration fully preheats the engine and attached accessories. Power is routed to the elements through a dedicated wiring assembly with LED system power indication and circuit overload protection standard. The system is self-regulating through design. Heated components reach an average state of thermal equilibrium in approximately six hours. This preheat kit is compatible with all engine monitor systems as the threaded heat elements can replace either a rocker cover screw or intake bolt fasteners. Not eligible for rotorwing aircraft (helicopters)

STC / PMA	Description	Part No.	Price
FAA-STC: # SE03232CH TCCA acceptance of FAA-STC on file. EASA-STC: # 10054417	Tanis Stc Engine Preheat Kit - 4 Cylinder Continental And Lycoming - 115 Volt #se03232ch..also Tcca & Easa Approved Tsp-4cyl-2925-115	05-14825	**$820.00**
FAA-STC: # SE03232CH TCCA acceptance of FAA-STC on file. EASA-STC: # 10054417	Tanis Stc Engine Preheat Kit - 4 Cylinder Continental And Lycoming - 230 Volt #se03232ch..also Tcca & Easa Approved Tsp-4cyl-2925-230	05-14826	**$820.00**
FAA-STC: # SE03309CH TCCA acceptance of FAA-STC on file EASA-STC: # 10054433	Tanis Stc Engine Preheat Kit - 6 Cylinder Continental, Lycoming And Franklin - 115 Volt #se03309ch..also Tcca & Easa Approved Tsp6cyl-2927-115	05-14829	**$1,200.00**
FAA-STC: # SE03309CH TCCA acceptance of FAA-STC on file EASA-STC: # 10054433	Tanis Stc Engine Preheat Kit - 6 Cylinder Continental, Lycoming And Franklin - 230 Volt #se03309ch..also Tcca & Easa Approved Tsp6cyl-2927-230	05-14830	**$1,200.00**
PMA ONLY	Tanis Engine Preheat Kit - 8 Cylinder Io-720 - 115 Volt Tsp8cyl-1045-115	05-14833	**$1,425.00**
PMA ONLY	Tanis Engine Preheat Kit - 8 Cylinder Io-720 - 230 Volt Tsp8cyl-1045-230	05-14834	**$1,425.00**

TANIS ROBINSON HELI-PREHEATER KITS



Preheating is accomplished using electrical resistance heat in the form of thin pads sized and shaped to fit various parts. The pads are surface mounted with a bonding adhesive. This includes engine, accessory and propeller reduction gearboxes, attached accessories, and engine oil tank. Power is routed to the heating elements through a dedicated shore power plug, circuit protection, and wiring assembly. System is self-regulating, heated components reach an average state of thermal equilibrium in approximately six hours.

Description	Part No.	Price
Tanis Heli-preheat Kit - Robinson R44 - 115 Volt Tshr44-2778-115	05-14813	**$2,182.00**
Tanis Heli-preheat Kit - Robinson R44 - 230 Volt Tshr44-2778-230	05-14814	**$2,275.00**
Tanis Heli-preheat Kit - Robinson R66 - Rr250-c300/a1 - 115 Volt Tshr66-3078-115	05-14815	**$4,125.00**
Tanis Heli-preheat Kit - Robinson R66 - Rr250-c300/a1 - 230 Volt Tshr66-3078-230	05-14816	**$4,125.00**

TANIS HEATER FOR C162 SKYCATCHER

Tanis Aircraft Products announced today that they now have an engine preheat system specifically for the Cessna 162 Skycatcher and the LSA market. This system has been approved by Cessna as per “Modification Kit MK162-25-06B”. (Reference Preheat System Part Number: TS02884-115.) The Skycatcher system is a new addition to the extensive product line already available for all Single Engine, Multi Engine and Turbine Cessna products........

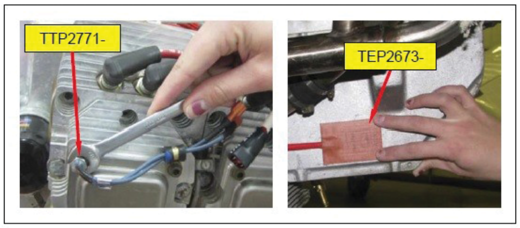
15V .... P/N 08-07626 .... **$720.00**
230V .... P/N 05-14765 .... **$720.00**

TANIS PREHEAT SYSTEM FOR ROTAX 912/914 SERIES ENGINES

Preheat system for Rotax 912/914 series engines. Kit contains heating elements for each cylinder, crankcase, and oil sump.

Standard .... P/N 08-07395 .... **$720.00**
Europe .... P/N 08-07395-230 .... **$720.00**

TANIS JABIRU PREHEAT KITS



Preheating is accomplished using electrical resistance heat in the form of thin pads sized and shaped to fit various parts. The pads are surface mounted with a bonding adhesive. This includes engine, accessory and propeller reduction gearboxes, attached accessories, and engine oil tank. Power is routed to the heating elements through a dedicated shore power plug, circuit protection, and wiring assembly. System is self-regulating, heated components reach an average state of thermal equilibrium in approximately six hours.

Description	Part No.	Price
Tanis Engine Preheat Kit -jabiru 2200 - 115 Volt Tsp4cyl-2513-115	05-14821	**$720.00**
Tanis Engine Preheat Kit -jabiru 2200 - 230 Volt Tsp4cyl-2513-230	05-14822	**$720.00**

TANIS AVIONICS / CABIN HEATER

Includes 6 foot long cable for easy use on floor of aircraft. Note: Extension cord to get to your aircraft or inlet/outlets not included. Output: 500 watts ± 10%. Required power: AC 100-240 Volt - 50/60 Hz. Dimensions: 6 x 5.75 x 2 inches (150 x 145 x 45 mm) Approximate Heater Lead length: 6 inches (150 mm) Approximate P/N 05-14755 .... **$340.00**

TANIS 4 / 6 CYLINDER ENGINE PRESERVATION KIT

Engine Preservation Kit: recommended by engine manufacturers for storage of an engine longer than 90 days. Everything you need for long-term protection of your Lycoming & Continental engine.

4 Cylinder .... P/N 08-07085 .... **$180.00**
6 Cylinder .... P/N 08-07086 .... **$270.00**

TANIS BONDING SEALANT

Conforms to MIL-A-46106. Clear must be used as the coloring dies and other added materials reduce the materials thermal transfer rates. Bonding sealant - 1 ounce tube.
P/N 08-13884 .... **$10.00**

EP

Prices Subject to Change Without Notice

TANIS PREHEAT SYSTEMS

Engine preheating is accomplished through electrical resistance heat in the form of thin pads sized and shaped to fit various parts. The pads are surface mounted with a bonding sealant/adhesive. Heated items include, engine accessory/reduction gearboxes, fluids, batteries and attached accessories. Power is routed to the heat elements through a dedicated wiring assembly with power indication and circuit overload protection. System is self-regulating through design. Heated components reach an average state of thermal equilibrium in approximately six hours.

Description	Part No.	Price
Cessna 208B - PT6A-140A - 115 Volt - When installed will supply 555 watts with a 4.8 amp draw at 115 volts.	05-14769	$2,800.00
Cessna 208B - PT6A-140A - 230 Volt - When installed will supply 555 watts with a 2.4 amp draw at 230 volts.	05-14770	$2,800.00
Twin Otter DHC-6 400 PT6A-34 - 115 Volt	05-14771	$6,210.00
Twin Otter DHC-6 400 PT6A-34 - 230 Volt	05-14772	$6,210.00
Gippsaero Airvan GA8 Series - W/battery & Avionics/cabin Heat - 115 Volt TSFGA8-3120-115	05-14773	$3,375.00
Gippsaero Airvan GA8 Series -W/battery & Avionics/cabin Heat - 230 Volt TSFGA8-3120-230	05-14774	$3,375.00
Quest Kodiak 100 - W/battery & Avionics/cabin Heat - 115 Volt TSFKODIAK-3123-115	05-14775	$4,450.00
Quest Kodiak 100 - W/battery & Avionics/cabin Heat -230 Volt TSFKODIAK-3123-230	05-14776	$4,450.00
Pilatus PC-12, PC-12/45, PC-12/47, Serial number (S/N): 101 thru 999 Engine: PT6A-67B. When installed will supply 703 watts with a 6.1 amp draw at 115 volts	05-14777	$5,200.00
Pilatus PC-12, PC-12/45, PC-12/47, Serial number (S/N): 101 thru 999 Engine: PT6A-67B. When installed will supply 703 watts with a 3.1 amp draw at 230 volts	05-14778	$5,200.00
Pilatus PC-12/47E, Serial number (S/N): 1001 - UP Engine: PT6A-67P. When installed will supply 703 watts with a 6.1 amp draw at 115 volts	05-14779	$5,200.00
Pilatus PC-12/47E, Serial number (S/N): 1001 - UP Engine: PT6A-67P. When installed will supply 703 watts with a 3.1 amp draw at 230 volts	05-14780	$5,200.00
P&W - R1340 - 115 Volt TSP9CYL-2904-115	05-14835	$3,025.00
P&W - R1340 - 230 Volt TSP9CYL-2904-230	05-14836	$3,025.00
Pratt & Whitney DHC-8 (Q400). Supplies 2838 watts with a 24.6 amp draw at 115 volts. Each engine is supplied with 1315 watts with a 11.4 amp draw at 115 volts. The 3 batteries are supplied with 208 watts with a 1.8 amp draw at 115 volts.	05-14781	$8,500.00
Pratt & Whitney DHC-8 (Q400). Supplies 2838 watts with a 12.3 amp draw at 230 volts. Each engine is supplied with 1315 watts with a 5.7 amp draw at 230 volts. The 3 batteries are supplied with 208 watts with a 0.9 amp draw at 230 volts.	05-14782	$8,500.00
Pratt & Whitney PT6A Small And Medium Engines (Short PRGB) - 115 Volt	05-14841	$1,730.00
Pratt & Whitney PT6A Small And Medium Engines (Short PRGB) - 230 Volt	05-14842	$1,800.00
Pratt & Whitney PT6A Large Engines (Long PRGB) - 115 Volt	05-14843	$2,100.00
Pratt & Whitney PT6A Large Engines (Long PRGB) - 230 Volt	05-14844	$2,100.00
Pratt & Whitney 118, 120, 121, 123 - 115 Volt	05-14845	$3,300.00
Pratt & Whitney 118, 120, 121, 123 - 230 Volt	05-14846	$3,300.00
Pratt & Whitney 124, 125, 126, 127 - 115 Volt	05-14847	$3,500.00
Pratt & Whitney 124, 125, 126, 127 - 230 Volt	05-14848	$3,500.00
Pratt And Whitney PW545A (Cessna Citation Excel) - 115 Volt	05-14849	$1,695.00
Pratt And Whitney PW545A (Cessna Citation Excel) - 230 Volt	05-14850	$1,695.00
Pratt & Whitney PWJT15D Series Turbofan Engines - 115 Volt	05-14851	$1,695.00
Pratt & Whitney PWJT15D Series Turbofan Engines - 230 Volt	05-14852	$1,695.00
Garrett TPE 331u & TPE 331 Series - 115 Volt	05-14839	$1,695.00
Garrett TPE 331 Series - 230 Volt	05-14840	$1,695.00
AgustaWestland A109C, A109E, A109S, AW109SP WITH PW206C/PW207C - 115 VOLT TSHAW109-2219-115	05-14787	$11,000.00
AgustaWestland A109C, A109E, A109S, AW109SP WITH PW206C/PW207C - 230 VOLT TSHAW109-2219-230	05-14788	$11,000.00
Rolls Royce RR250 Series Turboprop - 115 Volt	05-14853	$1,695.00

Description	Part No.	Price
Rolls Royce RR250 Series Turboprop - 230 Volt	05-14854	$1,695.00
Airbus TSHAS350-318 - RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14783	$4,585.00
Airbus TSHAS350-3184-230 - RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14784	$4,585.00
Airbus TSHAS350-3185-115	05-14785	$4,585.00
Airbus TSHAS350-3185-230	05-14786	$4,585.00
Airbus TSHEC130-3186-115 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14803	$4,585.00
Airbus TSHEC130-3186-230 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14804	$4,585.00
Airbus (Eurocopter) Ec 135 P1 & P2 With PW206B - 115 Volt TSHEC135-2230-115 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14805	$5,875.00
Airbus (Eurocopter) Ec 135 P1 & P2 With PW206B - 230 Volt TSHEC135-2230-230 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14806	$5,875.00
Airbus (Eurocopter) EC135T1/T2 W/arrius 2b/2b1/2b2 - 115 Volt TSHEC135-2765-115 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14807	$5,875.00
Airbus (Eurocopter) EC135T1/T2 W/ARRIUS 2B/2B1/2B2 - 230 Volt TSHEC135-2765-230 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14808	$5,875.00
Austro AE300 - 115 Volt #SE03232CH..ALSO TCCA & EASA Approved TSP4CYL-3001-115	05-14827	$1,400.00
Austro AE300 - 230 Volt #SE03232CH..ALSO TCCA & EASA Approved TSP4CYL-3001-230	05-14828	$1,400.00
Jacobs (L-4) R-755 - 115 Volt TSP-7CYL-3002-115	05-14831	$2,340.00
Jacobs (L-4) R-755 - 230 Volt TSP-7CYL-3002-230	05-14832	$2,340.00
Bell 407 With RR250-C47B - 115 Volt #SR03474CH TSHB407-3083-115	05-14795	$10,380.00
Bell 407 With RR250-C47B - 230 Volt #SR03474CH TSHB407-3083-230	05-14796	$10,380.00
Bell 212, 412, 412cf, 412EP - 115 Volt #SR04132CH TSHB412-3132-115	05-14799	$15,600.00
Bell 212, 412, 412CF, 412EP - 230 Volt #SR04132CH TSHB412-3132-230	05-14800	$15,600.00
AgustaWestland AW119 (Koala) with PT6B-37A. 802 watts with a 7.0 amp draw at 115 volts	05-14789	$9,780.00
AgustaWestland AW119 (Koala) with PT6B-37A. 802 watts with a 3.5 amp draw at 230 volts	05-14790	$9,780.00
Enstrom Helicopter F-28/280 W/ Hio-360 - Standard (CHT Not Wells Required) - 115 Volt TSHEN280-2780-115	05-14809	$1,250.00
Enstrom Helicopter F-28/280 W/ Hio-360 - Standard (CHT Not Wells Required) - 230 Volt TSHEN280-2780-230	05-14810	$1,250.00
Enstrom 480 - 115 Volt TSHEN480-2504-115	05-14811	$2,500.00
Enstrom 480 - 230 Volt TSHEN480-2504-230	05-14812	$2,500.00
Schweizer/Sikorsky 269/300 - Standard (CHT Wells Not Required) - 115 Volt TSHS269-2508-771-dt-115	05-14817	$1,250.00
Schweizer/Sikorsky 269/300 - Standard (CHT Wells Not Required) - 230 Volt TSHS269-2508-771-dt-230	05-14818	$1,250.00
Airbus (Eurocopter) AS350D with Lycoming LTS101 - When installed will supply 587 watts with a 5.1 amp draw at 115 volts.	05-14729	$4,585.00
Airbus (Eurocopter) AS350D with Lycoming LTS101 - When installed will supply 587 watts with a 2.6 amp draw at 230 volts.	05-14730	$4,585.00
Airbus (Eurocopter) Twin Engine - When installed will supply 1060 watts with a 9.2 amp draw at 115 volts.	05-14727	$4,875.00
Airbus (Eurocopter) Twin Engine - When installed will supply 1060 watts with a 4.6 amp draw at 230 volts.	05-14728	$4,875.00
Oil Tank Heater Kit - 115 Volt TSP1051-115	05-14819	$380.00
Oil Tank Heater Kit - 230 Volt TSP1051-230	05-14820	$380.00

TANIS PREHEAT ACCESSORIES

TANIS PAD HEAT ELEMENTS

Dims	Voltage/ Wattage	Description	Part No.	Price
1.75" X 7"	115/120	Shape: Rectangular Connector: Pin	05-14748	**$145.00**
1.75" X 7"	230/120	Shape: Rectangular Connector: Pin	05-14749	**$145.00**
2" X 3"	115/40	Shape: Rectangular Connector: Pin	05-14750	**$145.00**
2" X 3"	230/40	Shape: Rectangular Connector: Pin	05-14751	**$145.00**
2" X 4.5"	115/80	Shape: Rectangular Connector: Pin Usage: 6 cylinder piston engine sump and case	05-14752	**$145.00**
2" X 4.5"	230/80	Shape: Rectangular Connector: Pin Usage: 6 cylinder piston engine sump and case	05-14753	**$145.00**

TANIS THREADED HEAT ELEMENTS

Description	Part No.	Price
Threaded Heat Element 3/8-24 CHT (TAS100) with socket connector 50 WATT - 115 VOLT	05-14855	**$65.00**
Threaded Heat Element 3/8-24 CHT (TAS100) with socket connector 50 WATT - 230 VOLT	05-14856	**$65.00**
Threaded Heat Element 3/8-24 CHT (TAS100) W/ PIN CONNECTOR 50 WATT - 115 VOLT	05-14859	**$65.00**
Threaded Heat Element 3/8-24 CHT (TAS100) W/ PIN CONNECTOR 50 WATT - 230 VOLT	05-14860	**$65.00**
Threaded Heat Element 3/8-24 CHT DUAL PROBE - J TYPE GROUNDED - RED/WHT OR BLK/YEL (TAS100T-J) W/PIN CONNECTOR	05-14861	**$170.00**
Threaded Heat Element 3/8-24 CHT DUAL PROBE - J TYPE UNGROUNDED - RED/WHT OR BLK/YEL (TAS100T-JUG) W/PIN CONNECTOR	05-14862	**$170.00**
Threaded Heat Element 3/8-24 CHT DUAL PROBE - K TYPE GROUNDED - RED/YEL (TAS100T-K) W/PIN CONNECTOR	05-14863	**$170.00**
Threaded Heat Element 3/8-24 CHT DUAL PROBE - K TYPE UNGROUNDED - RED/YEL (TAS100T-KUG) W/PIN CONNECTOR	05-14864	**$170.00**
Threaded Heat Element 1.0-20 LYC. SUMP SCREEN BOLT (TAS101) W/PIN CONNECTOR - 50 WATT - 115 VOLT	05-14865	**$145.00**
Threaded Heat Element 1.0-20 LYC. SUMP SCREEN BOLT (TAS101) W/PIN CONNECTOR - 50 WATT - 230 VOLT	05-14866	**$145.00**
Threaded Heat Element 1/4-20X1.00		
50 WATT - 115 VOLT	05-14857	**$140.00**
Threaded Heat Element 1/4-20		
50 WATT - 230 VOLT	05-14858	**$140.00**
Threaded Heat Element 1/4-20 W/PIN CONNECTOR 50 WATT - 115 VOLT	05-14868	**$140.00**
Threaded Heat Element 1/4-20 W/PIN CONNECTOR 50 WATT - 230 VOLT	05-14870	**$140.00**

TANIS BATTERY HEAT ELEMENTS

Dims	Voltage/ Wattage	Connector	Part No.	Price
31.5" X 4"	115/60	with socket connector	05-14731	**$285.00**
31.5" X 4"	230/60	with socket connector	05-14732	**$285.00**
31.5" X 3.5"	115/60	with socket connector	05-14733	**$285.00**
31.5" X 3.5"	230/60	with socket connector	05-14734	**$285.00**
38.5" X 4"	115/74	with socket connector	05-14735	**$360.00**
38.5" X 4"	230/74	with socket connector	05-14736	**$360.00**
31.5" X 4"	115/60	with pin connector	05-14737	**$285.00**
31.5" X 4"	230/60	with pin connector	05-14738	**$285.00**
31.5" X 3.5"	115/60	with pin connector	05-14739	**$285.00**
31.5" X 3.5"	230/60	with pin connector	05-14740	**$285.00**
38.5" X 4"	115/74	with pin connector	05-14741	**$360.00**
18" X 2.37"	115/20	with pin connector	05-14742	**$250.00**

TANIS LED INDICATOR LIGHTS

Description	Part No.	Price
LED Indicator Light 6 inch lead, Pin connector - 115V	05-14756	**$60.00**
LED Indicator Light 6 inch lead, Pin connector - 230V	05-14757	**$60.00**
LED Indicator Light 6 inch lead, socket connector - 115V	05-14758	**$60.00**
LED Indicator Light 6 inch lead, socket connector - 230V	05-14759	**$60.00**

TANIS PREHEAT PARTS

Description	Part No.	Price
Connector kit comes with all the items necessary to install one 2 contact socket connector.	05-14745	**$5.99**
Connector kit comes with all the items necessary to install one 3 contact socket connector.	05-14746	**$7.60**
Solid Pin Contact - For single 18 or 20 gauge wire connection 0460-202-16141	05-14701	**$1.08**
Solid Pin Contact - Nickel w/ green stripe - For single 18 gauge wire connection or two 20 gauge wires 0460-215-16141	05-14702	**$1.08**
Solid Socket Contact - For single 18 or 20 gauge wire connection 0462-201-16141	05-14703	**$1.92**
Solid Socket Contact - Nickel w/ green stripe. For single 18 gauge wire connection or two 20 gauge wires 0462-209-16141	05-14704	**$1.92**
Solvent Wipe CB911	05-14711	**$6.00**
4 Way Indent Crimp Tool for 16-22 AWG Wire TU02793	05-14876	**$45.00**
Aluminum Spacer - 1/4" I.D. TU02846	05-14877	**$0.25**
Aluminum Spacer - 5/16" I.D. TU02846-5	05-14878	**$0.45**
Anti-Seize 2 Gram Pillow Pack	05-14881	**$2.40**
Flush Mount Plug - Metal - 115V	05-14760	**$56.00**
Flush Mount Plug - Synthetic - 115V	05-14761	**$56.00**
Flush Mount Plug - Tethered Cap	05-14762	**$56.00**
Fuse, 12AMP TU02848	05-14880	**$1.62**
Harness Connector (Blade Contact) CNA	05-14713	**$1.90**
Battery Heat Installation Kit..- Battery Heat Element Sold Separately TSB2800	05-14766	**$450.00**
Bonding Sealant 1oz. AC-1230	08-13884	**$10.00**
Slotted Socket - 11mm Deep 6 Sided 1/4 Drive TU03032	05-14884	**$16.00**
Bracket, Shore Plug (Continental Sandcast, AE300) TU03016	05-14883	**$37.00**
Cable Tie - 8" Long, 40 lb, Black, Heat Stabilized	05-14879	**$0.08**
Low Profile Cable Mount, Click Bond adhesive.	05-14874	**$12.00**
18 gauge, 2 conductor - Black/Grey (BLK) and White (WHT) paired nickel coated copper wires with Red jacket.	05-14706	**$5.73**
Circular Plug Bracket (Lycoming)	05-14871	**$37.00**
Click Bond Installation Kit	05-14712	**$15.00**
Contact Removal Tool	05-14715	**$30.00**
Element Connector "Spade style" (receptacle contact)	05-14714	**$1.80**
Washer Kit for LED Light TU03065	05-14885	**$14.50**
Washer Thermocouple, J Type Grounded Kit.	05-14724	**$65.00**
Washer Thermocouple, K Type Grounded Kit	05-14725	**$65.00**
Panel Mount Fuse Holder for 1/4" x 1 1/4" Fuses.	05-14723	**$5.55**
Install one 2 contact pin connector.	05-14743	**$5.80**
Install one 3 contact pin connector.	05-14744	**$7.60**
Placard for Tanis 115 Volt Systems	05-14872	**$3.00**
Placard for Tanis 230 Volt Systems	05-14873	**$4.50**
Plug Body, 2 Socket DT06-2S-E004	05-14720	**$2.16**
Power Door Kit (2.4) TD02840	05-14747	**$156.00**
Power Plug, Free Hanging 115V TP02770-115	05-14763	**$25.00**
Receptacle Body, 2 Pin DT04-2P-E004	05-14717	**$2.16**
Sealing Cap for 2 Socket Connector DT04-2P-E004	05-14720	**$2.16**
Sealing Cap for 2 Pin Connector DT06-2S-C017	05-14716	**$5.94**
Sleeving - 0.249"/0.229", Non-Fray HO #3 Red - /FT 3120003-Red	05-14707	**$2.40**
Sleeving - 0.198"/0.182", Non-Fray HO #5 Red - /FT 3120005-Red	05-14708	**$2.42**
Sleeving - 0.178"/0.162", Non-Fray HO #6 Red - /FT 3120006-Red	05-14709	**$2.50**
Slotted Socket - 1/2" Deep 6 Sided 1/4 Drive TU02905-05	05-14882	**$16.00**
Triangular Plug Body, 3 Socket DT06-3S-E004	05-14722	**$3.51**
Triangular Receptacle Body, 3 Pin DT04-3P-E004	05-14718	**$2.50**
Triangular Sealing Plug For 3 Pin Connector DT06-3S-C017	05-14721	**$10.00**

C & D AIRCRAFT HEATERS

Designed for upgrading obsolete aircraft heating systems or first time installation in your aircraft, C&D Installation kits include a complete group of materials necessary to replace the obsolete system or to install for the first time. Commonly used C&D heater components are shown below. For replacement heaters, request a quote by phone or email and provide aircraft make, model, and serial number.

HEATER COMPONENTS

C & D P/N	Description	Part No.	Price
CD12065-1	Cabin Heater	05-12002	$7,492.00
CD12064-1	Cabin Heater	05-12003	$6,549.00
CD14072-1	Cabin Heater	05-12004	$6,562.00
CD14073-1	Cabin Heater	05-12005	$6,495.00
CD14075-1	Cabin Heater	05-12006	$6,485.00
CD14077-1	Cabin Heater	05-12007	$7,432.00
CD14066-1	Cabin Heater	05-12009	$7,491.00
CD14078-1	Cabin Heater	05-12010	$8,473.00
CD21253	Electronic Thermostat	08-14605	$587.00
CD21255	Rotary Thermostat	08-14606	$95.99
CD21402	24V Motor	08-14607	$1,586.00 +$50 Core
CD21401	12V Motor	08-14608	$793.00 +$50 Core
CD22050	Spark Plug	08-14609	$159.85
CD21381	24V Ignition Unit	08-14610	$799.00 +$50 Core
CD20800	12VDC Fuel Regulator	08-04612	$56.75 +$100 Core
CD20801	24VDC Fuel Regulator	08-04613	$55.75 +$100 Core

KENNON INSULATED ENGINE COVERS

Kennon's insulated engine covers are custom made for the specific year, make and model of aircraft for a a snug fit. Kennon makes its own engine blanket material using a bonded fiberfill that doesn't need to be quilted to stay in place, which can destroy the loft and put thousands of needle holes in the cover where heat can escape. The outer shell is made of red, blue, or black polyester rather than nylon, increasing the useful life of the cover and the inner layer is fluorescent orange which can be used as a signaling device in the event of an emergency. Flaps for oil doors to check or fill the oil and cowling inlet flaps for preheating purposes can be added for $25.00 each. Insulated prop and spinner covers are also available.

2-Seat A/C (sml) . 07-00983..**$499.95** 4-6 seat A/C (reg.).. 07-00984 .**$499.95**
Twin Eng. A/C ... 07-00985..**$820.00** Spinner Cover . 07-00987 .**$148.75**
Prop Cover .... 07-00988....**$64.95**

NEAT HEATER

A neat and compact, powerful heater system for your Light Sport Aircraft! Never fly cold again. Installs quickly and easily in any aircraft with a liquid cooled power plant. Specifically Designed For the Rotax 912 and 582.

Features: • Powerful 300 CFM Fan • Draws Only 3.4 amps • Simple on/off controls • Completely Shut Coolant Off In Summer • Tested, Proven Design to 250 Deg at 25 psi. • Infinite Mounting Possibilities • Safe and Reliable • Easy to Install/Service • One Year Parts Replacement Warranty

Specifications: • Dimensions: 7.5" x 6.75" x 3.75" • Weighs only 6 lbs pounds

Neat Heater........................P/N 08-07376 ....**$456.00**
Neat Heater Install Kit ....P/N 08-07377 ....**$242.95**

SAFE-HEET ENGINE HEATERS

SAFE-HEET is a thin flexible pad that is bonded to the engine oil sump. The kit is complete with materials and step-by-step instructions. A log book entry is all that is required for permanent installation; No S.T.C. or 337 form required. There are no airframe modifications required. SAFE-HEET can be used with a timer or the 707 temperature controller, and uses standard 110 A.C. voltage. We recommend using the SAFE-HEET 707 Temperature Controller to cure the adhesive for faster installation.

MODEL 700 Dimension: 4" x 4"................. P/N 05-04420..........**$186.95**
MODEL 720 Dimension: 4" x 7"................. P/N 05-04421..........**$186.95**

VARIABLE TEMPERATURE CONTROLLER - The SAFE-HEET Variable Temperature Controller can be used with any 700 Series SAFE-HEET Engine Pre-heater as an installation aid, or for providing temperature control for continuous pre-heat without promoting internal engine corrosion. .... P/N 05-04423...........**$77.75**

For application information please call or visit our website at www.aircraftspruce.com

NORTHERN COMPANION PRE-HEATER

Compact: NC5A = 6" x 17.25", NC5B = 6" x 15". Lightweight: 6lbs, 6oz average weight. Multi Fuel: *100LL aviation gas - Leaded or unleaded auto gas - White Gas - Kerosene . Diesel - JP4 and JP8 jet fuel. Approximately 20,000 BTU: Type of fuel and pressure in bottle affect output. Shockcorded legs: Slide the legs away from the clips and they seat themselves in the base. Stainless Steel Burner Chamber. No Battery or Other Electrical Power Required. Fast Setup and Takedown - Even with mittens on!. No Tools Required

6" X 17.25"............ P/N 05-04767..........**$954.00**
6" X 15"................. P/N 05-04768..........**$856.00**

REIFF HOTSTRIP OIL SUMP HEATERS

HotStrip is thin and lightweight like a silicone pad, but made of aluminum for maximum durability. Works either as a stand-alone sump heater or integrated with the Hot Band Cylinder Heating Systems in the Standard, Turbo, and Turbo XP Systems. Bonds to the bottom or side of oil sump and electrically heats the oil. Features dual heating elements for redundancy. System includes two 100W elements thermostat, and power cord. **FAA Approved for: Lycoming** 0-235; All 290, 320, 360 series; All 435, 480, 540, 541 series; **Continental** IO-346; All 300, 600 series; E-165, E-185, E-225, All 470, 520, 550 series. **HotStrip Oil Sump Heater System:** All engines above (Except Continental A-65, A-75, A-80, C-85, C-90, O-200, IO-240. These engines with oval oil sump use HotPad flexible silicone heating elements) Franklin 165, 220. P/N 08-00688 ....**$199.00**

REIFF PREHEATER FOR ROTAX 912/914

The Reiff preheat system for Rotax 912 and Rotax 914 aircraft engines is an engine-mounted electric preheat system designed for easier cold-weather starts. The preheat system consists of a 100-watt metal "hot strip" element, which is epoxied to the bottom of the crankcase, and a 50-watt band heater that is clamped to the oil tank.

The Reiff is FAA approved, and includes a thermostat to keep the oil from exceeding 150° F.

Description	Part No.	Price
150 Watts 110V	08-06219	$249.95
150 Watts 220V	08-06219-1	$251.95
250 Watts 110V	08-07620	$385.00
250 Watts 220V	08-07620-1	$394.00
350 Watts 110V	08-07621	$550.00
350 Watts 220V	08-07621-1	$533.00

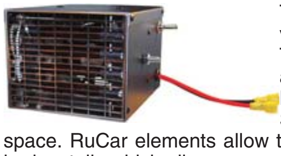
THE SWITCHBOX REMOTE CONTROL APP

The easiest, cheapest and safest way to remote control any electrical device. For Pilots: No more driving to the airport hours before a flight. Turn on your Engine Heater from your cellphone, and simplify your cold flying routine! TIP: Activate a 2nd device like a Cabin Heater for your sensitive avionics, or a Coffee Maker before you arrive!

For General Use: Your new 'Smart Home' with the easy automation from SwitchBox. Remote control your heating, lighting and air conditioning, from anywhere in the world. TIP: Turn On the A/C before you get home, or check to see if you left the lights On and turn them Off. Save Money! ***SwitchBox App for iPhone/iPad/Android - Free. Visit our website to download your copy.***

The Switchbox 2G ....P/N 08-07711 ....**$299.00**
The Switchbox 4G ....P/N 08-15733 ....**$352.00**
The Switchbox 4G with LED ....P/N 08-15734 ....**$364.99**
Cell Service Sim Card ....P/N 08-13550 ....**$19.95**
Wired Antenna...P/N 08-13551 ....**$14.95**

BRUSHLESS CABIN HEATERS



These heaters are available from 12-48 volts, and different wattages as well. The Stealth heater is simple to install and can be operational in minutes. Measuring only 6" long and 5" tall, our Stealth heater will fit in virtually any small space. RuCar elements allow the heaters to be mounted vertically OR horizontally which allows even a tighter mounting space. Specifications: Heater Dimensions: 6"x 5" X 4". Brushless 50,000 Hour Ball Bearing Fan. 10,000 Hour DC Thermal ©RuCar Vacuum Sealed Elements. Case Construction: Riveted T5052 Aircraft Aluminum. Wired Entirely with GXL Wire. Thermally Protected. HIGH and LOW HEAT Settings. Comes complete with mounting hardware, mounting bracket, fuse, fuse holder, electrical connector ends, and detailed instruction. TWO YEAR Parts AND Labor Warranty.

Model	Volts/Watts	BTUS	Part No.	Price
SA12-3000	12V / 360W	6012	05-02121	**$208.95**
SA12-4000	12V / 480W	8016	05-01966	**$218.95**
SA12-5000	12V / 600W	10,020	05-03869	**$228.95**
SA24-2500	24V / 600W	10,020	05-04855	**$199.85**
SA24-3500	24V / 840W	14,028	05-03870	**$219.95**
SA24-4500	24V / 1080W	18,036	05-02123	**$228.95**

PREHEATER REMOTE CONTROL

REGAL PRO provides Reliable Remote Control of TANIS, REIFF and other Aircraft Engine Preheaters. The PRO is a one-stop product that includes U.S. based customer/product support and Cell service. PRO has two independently-controlled 115 VAC outlets with a combined capacity of 1700 Watts. The unit is fully interactive, interrogated by a free iPhone App or by SMS messages from any text capable cell phone. Clock Operations allow users to program the outlets to turn on at future times (within 24 hours of programming) and remain on for periods selected by the user. Both outlets can be turned OFF and ON individually by iPhone App or manual text commands. Both outlets can be turned ON for Specific Periods by App or text message, turning OFF when the period expires. A semi-permanent Resident Program can be pre-set to activate the outlets for user selected ON periods by use of iPhone App or text messages. The Resident Program is activated by a No-Cost phone call. Range of Operation is Nationwide.

P/N 11-13671 .... **$375.00**

RANS AIRCRAFT CABIN HEATER

The RANS aircraft heater is the answer to the winter flying "chills". It is very lightweight, inexpensive and installs easily in just two hours. This heater utilizes ram air & the heat off the engine muffler. Operation is simple. Slipstream air is forced through the heater inlet, passing over the muffler, picking up the heat and delivering it to the cabin or pod via an Aeroduct hose. Contains no moving parts. Fits Rotax mufflers and adaptable to other engines. P/N 05-17400 ....**$239.00**

HORNET AIRCRAFT HEATERS

Because the Hornet Heaters are hand built, the user can select the thermostat temperatures. The two-stage operation also reduces amp inrush by sequencing the heaters. Perhaps the most important feature of the Twin heating system is the peace of mind that comes from knowing that the possibility of both heaters failing simultaneously is almost nonexistent and one heating circuit will provide enough heat to prevent engine damage. The unit is equipped with a switch that provides the user with a means to test the operation of each heating circuit independently. Other important features include a non-conductive fire rated fiberglass housing, mil-spec wiring, and an industry leading 3-year warranty. Made in the United States.

Description	Part No.	Price
Twin Hornet - 22 Cigarette Cord / Inflight Heater 2 - Fan; User controlled on/off toggle; 2" x 2.5" x 9.5"; 12v DC 200 watts	08-12218	**$199.00**
Twin Hornet - 22 Cigarette Cord / Inflight Heater 2 - Fan; User controlled on/off toggle 2" x 2.5" x 9.5"; 24v DC 250 watts	08-12220	**$199.75**
Quad Hornet 40ft Cord / Engine Preheater 4 - Fans; 70° F; 2.5" x 4" x 9"; 120v AC; 500 watts	08-12221	**$429.00**
Hornet 45 Engine or Cockpit Preheater 1 - Fan; 70° F; 3.625" x 5" x 5.25"; 120v AC; 700 watts	08-12224	**$289.00**

NEW HARTZELL JANITROL CABIN HEATERS

Hartzell Engine Technologies' I-Series aircraft cabin heater features innovative combustion tube technology fabricated from advanced Inconel® material. Adapted from many years of proven military applications, this material provides substantially improved protection in extreme temperature applications. See "Application Guide" before ordering.

Heater	Model	Part Number	Price
--	I-1500	07-18437	**$5,961.00**
--	I-1500	07-18439	**$6,412.00**
--	I-2500	07-18415	**$6,413.00**
--	I-2500	07-18425	**$6,412.00**
--	I-2500	07-18440	**$5,971.00**
B3040	I-3500	07-18408	**$6,411.00**
B3040	I-3500	07-18411	**$7,372.00**
B3040	I-3500	07-18416	**$6,413.00**
B3040	I-3500	07-18418	**$6,413.00**
B3040	I-3500	07-18419	**$5,961.00**
B3040	I-3500	07-18420	**$5,961.00**
B3040	I-3500	07-18421	**$5,961.00**
B3040	I-3500	07-18422	**$6,412.00**
B3040	I-3500	07-18423	**$5,961.00**
B3040	I-3500	07-18427	**$6,412.00**
B3040	I-3500	07-18428	**$6,412.00**
B3040	I-3500	07-18429	**$6,412.00**
B3040	I-3500	07-18430	**$6,412.00**
B3040	I-3500	07-18434	**$6,412.00**
B3040	I-3500	07-18435	**$6,412.00**
B3040	I-3500	07-18438	**$6,413.00**
B3040	I-3500	07-18441	**$6,412.00**
B3040	I-3500	07-18442	**$6,412.00**
B3040	I-3500	07-18443	**$6,412.00**
B3040	I-3500	07-18444	**$6,412.00**
B3040	I-3500	07-18445	**$6,413.00**
--	I-4500	07-18409	**$6,412.00**
--	I-4500	07-18410	**$6,413.00**
--	I-4500	07-18412	**$6,412.00**
--	I-4500	07-18413	**$6,412.00**
--	I-4500	07-18414	**$6,413.00**
--	I-4500	07-18417	**$6,412.00**
--	I-4500	07-18424	**$6,412.00**
--	I-4500	07-18426	**$5,870.00**
--	I-4500	07-18431	**$6,412.00**
--	I-4500	07-18432	**$6,412.00**
--	I-4500	07-18433	**$6,412.00**
--	I-4500	07-18436	**$6,412.00**

REBUILT HARTZELL JANITROL CABIN HEATERS

Heater	Model	Part No.	Price
--	I-2500	07-18461	**$4,751.00**
--	I-2500	07-18471	**$4,141.00**
B3040	I-3500	07-18446	**$4,660.00**
B3040	I-3500	07-18449	**$4,751.00**
B3040	I-3500	07-18453	**$4,142.00**
B3040	I-3500	07-18455	**$4,141.00**
B3040	I-3500	07-18456	**$4,141.00**
B3040	I-3500	07-18457	**$4,142.00**
B3040	I-3500	07-18458	**$4,751.00**
B3040	I-3500	07-18459	**$4,142.00**
B3040	I-3500	07-18462	**$4,751.00**
B3040	I-3500	07-18463	**$4,141.00**
B3040	I-3500	07-18464	**$4,234.00**
B3040	I-3500	07-18468	**$4,142.00**
B3040	I-3500	07-18469	**$4,142.00**
B3040	I-3500	07-18472	**$4,751.00**
B3040	I-3500	07-18473	**$4,233.00**
B3040	I-3500	07-18474	**$4,751.00**
B3040	I-3500	07-18475	**$4,234.00**

HARTZELL UPGRADE JANITROL CABIN HEATERS

Heater	Model	Part No.	Price
B3040	B3500	07-18497	**$2,722.00**
B3040	B3500	07-18523	**$2,226.00**
B3040	B3500	07-18608	**$2,094.00**
B3040	B3500	07-18609	**$2,137.00**
--	B4500	07-18502	**$2,554.00**
--	B4500	07-18574	**$2,002.00**

Prices Subject to Change Without Notice

CHAMPION SPIN-ON OIL FILTERS

CH48110-1 *CH48111-1*

Aircraft	Aircraft Model	Filter P/N
Beech	E33, F33, A35 thru S35	CH48109-1
Cessna	120, 140, 170, 172, 180, 182, 185,205,210, 310 C thru Q, 310R	CH48110-1
Mooney	M20, M22	CH48110-1
Piper	PA-18, PA-22, PA-23, PA-24, PA-25, PA-28, PA-30, PA-31, PA-34, PA-60	CH48110-1
LSA	Lycoming 233	CH48114-1

Filter P/N	Price	12 Pack	Price
CH48103-1	**$25.55**	08-00905-12	**$297.95**
CH48104-1	**$25.50**	08-00906-12	**$297.95**
CH48108-1	**$25.50**	08-00907-12	**$296.95**
CH48109-1	**$25.50**	08-00908-12	**$298.95**
Filter P/N	**Price**	**12 Pack**	**Price**
CH48110-1	**$25.50**	08-00909-12	**$297.95**
CH48111-1	**$25.50**	08-00910-12	**$296.95**
CH48114-1	**$34.90**	08-07538-12	**$418.80**
CFO-100-1	**$25.75**	----	---

K&N OIL FILTERS

K&N powersports oil filters are 'TUV' product endorsed and 'TUV' factory production monitored. This means every K&N oil filter is equal to or will exceed all OEM specifications. Our filters contain a modern synthetic filter media, designed for ultimate flow with less pressure drop, yet engineered for outstanding filtration to meet or exceed all OEM specifications. All K&N powersports 'spin-on' oil filters feature a heavy-duty metal can with a 17mm nut affixed onto the end that allows for easy installation and removal. The 17mm nut is crossed-drilled so racers can safety wire the filter to their bike.

K&N OIL FILTER KN-141 .... P/N 08-06231 .... **$9.75**
K&N OIL FILTER KN-142 .... P/N 08-00691 .... **$9.75**

TEMPEST SPIN-EZOIL FILTERS

Tempest Oil Filters feature a MAGNETIC secondary filtration system that attracts steel particles too small to be caught in the filter media.* Base Plate Thickness: .187" * Burst Pressure: 700 psi * Media Size: 311 sq. in. * AA48108 & AA48109: *Bypass Relief Valve TCM specs: 12-14 psi *Patented PC Housing.

Filter No.	Our Part No.	Price
AA48103-2	08-01266	**$20.50**
AA48104	08-01267	**$20.50**
AA48162 Cessna 162 LSA	08-48162	**$19.75**

Filter No.	Our Part No.	Price
AA48108-2	08-01268	**$20.50**
AA48109	08-01269	**$20.50**
AA48110-2	08-01270	**$20.50**
AA48111	08-01271	**$20.50**

SPIN-ON OIL FILTER - SIX PACK

Part No.	Tempest	Price	Part No.	Tempest	Price
08-04969	AA48103-2-6PK	**$119.50**	08-04972	AA48109-6PK	**$119.50**
08-04970	AA48104-6PK	**$119.95**	08-04973	AA48110-2-6PK	**$118.95**
08-04971	AA48108--26PK	**$118.95**	08-04974	AA48111-6PK	**$119.95**

TEMPEST ROTAX OIL FILTERS

The new filter has all the features which have made the Tempest oil filter so popular, including the magnetic secondary filtration system, and higher burst pressure. Full Can Thickness:.019". Base Plate Thickness:.100". Burst Pressure:275-325. Media Size:118 sq. in. P/N 08-07226 ....**$19.95**

FOR TEMPEST OIL FILTER TOOLS SEE PAGE 800.

AEROMAG

Note: Sold as a single unit, however to gain maximum results purchase as a set of two (one on each side). Within the tight clearances of today's aircraft engines, normal wear generates tiny steel particles that are carried away in your oil. These particles are so small they will pass right through an normal oil filter. When the oil circulates back into the engine, these same particles are carried into every lubricated space where they can cause three body abrasive wear. AeroMag® extracts normal, wear-causing steel particles from your oil with its powerful, focused, magnetic field technology. These particles are permanently trapped on the inside wall of the filter and are thrown away when the filter is changed. Slide the AeroMag® off the old filter, snap it onto a new one and it goes right back to work protecting your engine.

AM360 3.6" (Lyc & Cont with at least a 3.625 in. diameter oil filter)
P/N 08-01088......... **$107.75**
AM300 2.9" (Tall Rotax) .... P/N 08-01235......... **$109.75**
AM150 2.5" (Short Rotax) .... P/N 08-07058........... **$83.95**

EP

AIRWOLF REMOTE MOUNTED OIL FILTER KITS

The remote mount oil filter kit by Airwolf Filter Corp. replaces the Lycoming oil screen and housing allowing every aircraft to have an oil filter and to locate it on the firewall where it's easy to get to. The adapter takes up no more space on the engine than the original part, so even the tightest installations can benefit from it. Your Vernatherm and oil temp bulb are reused and transferred directly to our adapter, everything else is included. Universal STC'd kit fits any Lycoming powered Single/Multi engine airplane less than 450hp. All other STC'd for specific aircraft. **Hoses not included unless where indicated.** ***Perfect for Tight Installations in:*** * Avion * Aeronca * Bellanca *Beech *Cessna *Cozy MK-IV * Glasair * Grumman * Lancair *Long EZ *Maule *Mooney * Piper * Pitts * RV *Skybolt *T-18 *Vari-EZ * Velocity
Fits Lycoming Series Engines: 0-235, 290, 320, 340, 360, & 540

CONTINENTAL

Description	Part No.	Price
STCD Universal Continental Kit - Fits A50, A65, A75, A80, C75, C85, C90, C125, O-200, & IO-240 Engines.	08-05675	**$595.00**
STCD Continental Kit-Fits C145,O300,GO300,&IO360A,C,D, G,H,J,K	08-05680	**$595.00**
STCD Continental Kit (O470, IO470, IO520, TSIO520, GTSIO520, & IO550 Engines)	08-05685	**$595.00**
STCD Continental Kit (O470-11 & -15 Military Engines used on T34 & Cessna 305 Birddogs.)	08-05690	**$595.00**
STCd Continental Kit - Fits E-165, E-185, E-205, E-225	08-05700	**$595.00**
STCD Continental Kit (TIO360, IO520BA, C, M, TSIO520 B, D, E, J, K, L, N, U, BE, VB, WB & IO550B, C Engines)	08-05800	**$695.00**
STCd Continental Kit - Fits W-670 Radials(Stearman) Includes Hoses & Clamps	08-05805	**$595.00**
STCD Continental Kit - Fits W-670 Radials (Waco)	08-05810	**$595.00**

LYCOMING

Description	Part No.	Price
Lycoming Homebuilt Kit	08-05605	**$569.00**
STCD Husky Kit AFC-K005 Includes Hoses & Clamps	08-05635	**$995.00**
STCD Super Cub Kit AFC-K006 Includes Hoses & Clamps	08-05630	**$895.00**
STCD Universal Lycoming Kit	08-05660	**$595.00**
All American Champion Aircraft with Lycoming engine. Includes Lifetime Teflon Firesleeved Hoses	08-15995	**$845.00**
STCD Lycoming Kit-Fits all with Single Drive,Dual Magneto Engines.	08-05665	**$595.00**
STCD Lycoming Kit - Fits All IO-720 Engines	08-05670	**$795.00**
Lycoming Filter Relocation Kit - Requires existing Lycoming 77852 Spin-on adapter. Application does not include helicopters.	08-00038	**$595.00**
K007-G Stearman Kit [Lycoming R680 Radial] Includes Hoses	08-13248	**$595.00**
STCD Franklin Oil Filter Kit Includes Hoses & Clamps	08-05815	**$1,299.00**

RADIAL

Description	Part No.	Price
P&W R985 Kit, Stearman	08-00995	**$895.00**
AFC-K015-D P&W R1830 Kit, DC-3/C-47	08-00997	**$1,595.00**
AFC-K015-E R985 Kit, Beach-18, Staggerwing, DGA-15	08-00998	**$895.00**
P&W R1340 Kit, Otter	08-00999	**$995.00**
AFC-K015-G P&W R985/1340 Kit, AG-Cat	08-01001	**$995.00**
AFC-K015-H P&W R1340 Kit, AT301/401/501	08-01002	**$995.00**
R1340 Kit, Thrush/S2D (Snow)	08-01003	**$995.00**
AFC-K015-L P&W R985 Kit,	08-01004	**$895.00**
FC-K015-K P&W R985 Kit, Weatherly ; Gorilla Pump for radial engines.	08-07297	**$995.00**
AFC-K016-A - Curtis Wright R755 Kit [Small Radials] Gorilla Pump for radial engines.	08-07298	**$523.00**
AFC-K016-C Curtis Wright R1820 Kit [Sikorsky S-58] Gorilla Pump for radial engines.	08-07300	**$1,234.00**
AFC-K016-D Curtis Wright R1820 Kit [DC-3] Gorilla Pump for radial engines.	08-07301	**$1,234.00**
AFC-K016-E Curtis Wright R1820 Kit [Grumman Tracker] Gorilla Pump for radial engines.	08-07302	**$995.00**
P&W R1340 Kit, T-6/Harvard Gorilla Pump for radial engines with slip on fittings.	08-07385	**$929.00**
P&W R1340 Kit, T-6/Harvard Gorilla Pump for radial engines with Aeroquip flare type fittings.	08-07386	**$940.00**

PUROLATOR PT6 OIL FILTER

Oil filter, Pratt Whitney PT6 Series Filter may also be purchased with Filter Analysis Kit GA-F-L and Oil Analysis Kit GA-M,F-L.
P/N 08-14696 ....**$126.75**

OIL FUEL FLOW RESTRICTOR FITTING

An oil/fuel flow restrictor fitting designed to fit the Lycoming engine oil pressure port as well as the fuel pressure port on the KB-090-T. This fitting is a modified AN823-4 and the restriction is a .040" hole. Threaded end is 1/8" NPT. .... P/N 05-11908........**$33.00**

CONTINENTAL REMOTE OIL FILTER ADAPTER

Replaces the oil screen and will fit C65 thru O-200 engines. 3 ports In and out. Note: This Continental Remote Oil Filter Adaptor will go nicely with the Remote Oil Filter Bracket 08-01057. For Experimental use only Does not include fittings or copper gasket as shown in image. IN & OUT pipe threads in the continental oil filter adapter are: 3/8-18 npt (female). The third hole is a 5/8-18 straight thread with a 45 degree chamfer at the bottom of the thread for a temperature probe to seat against. P/N 08-13154.......**$255.95**

B&C BC700 LYCOMING OIL FILTER ADAPTER

The original 90-degree oil filter adapter for Lycoming engines, precision CNC machined from billet aluminum. Designed to provide a high-quality replacement for the stock Lycoming oil screen or horizontal spin-on filter adapter, the BC700 mounts directly on the engine accessory case without interference with the magnetos, vacuum pump, or standard mechanical tach drive. STC/PMA on Lycoming 0-235; O, IO, LIO, AIO, AEIO-320; O, IO, LIO, HO, HIO, TIO, AEIO-360; O, IO, HIO, TIO, LTI, AEIO-540 & IO-720 series engines. Adapter kit also includes a new gasket, crush washers, mounting bolts, and CH48108-1 filter. Weight: 1 lbs. (with filter: 2.30 lbs).

BC700-1 Oil Filter Adapter, STC/PMA .... P/N 08-00195.......**$445.00**
BC700-H Oil Filter Adapter, Homebuilt .... P/N 08-00196 ......**$398.00**

ACCESSORIES:

B&C Oil Temperature Probe Adapter .... P/N 08-07092 ....**$13.50**
B&C Vern-a-therm Opening Plug.................. P/N 08-07093 ....**$34.50**

EP

CESSNA / CONTINENTAL OIL FILTER ADAPTER KITS

Part No.	Aircraft Application	Price
0450404-3	C150, A150, F150, FA150, FRA150	**$932.00**
0556010-200	C172, F172	**$963.00**
1250922-201	C180, C185, C188, T188	**$4,592.00**
1250922-200	C205, C206, U206, P206, 207, 210,	**$1,246.00**
1250922-4	188, 188T, 206, 207, T207, 210, T303, 335, 340A, 421-C	**$595.00**

All the Continental spin on adapter kits above require the following items in addition to the adapter: Oil Filter .... P/N CH48110 .....**$25.50**
Nut .... P/N 1250405-1 .**$443.00**
AN123883 O-Ring . P/N 08-04930 ....**$4.70**

LYCOMING SPIN-ON FILTER ADAPTER KITS

Part No.	Aircraft Application	Price
LW-13743	All Applicable Engines Except Models Shown In Table Below	**$700.61**
LW-13744	0-235 Series	**$700.61**
LW-13745	IO-720 with 1200 Series Series Magnetos	**$700.61**
08-00513	0-320-H (LW-14969)	**$2,234.55**
LW-13904	All Engines with Dual Magnetos. Includes Converter Plate Assembly and Does Not Include Filter	**$1,031.03**

All Lycoming spin on oil filter adapter kits above include adapter, oil filter assembly, adapter plate, gaskets, & attaching hardware. LW-14969 kit also contains oil cooler bypass valve assembly, 2 elbows, & 2 oil seals for oil cooler installations.

CASPER LABS NO SPILL OIL FILTER HOUSING

The Casper Labs "full flow" vertical oil filter kit is designed to provide Lycoming Engine owners several improvements over the standard Lycoming oil screen or filter hardware. This device locates the filter in the vertical plane.
The unit has no moving parts and requires no maintenance. Standard aviation filters are compatible. Temperature probe hardware transfers directly from the present screen housing or OEM filter adapter. Note: Verify the adapter and filter fit in the engine compartment before bolting the unit on to the case. **Kits Include:** • Filter (some kits do NOT include a filter: see descriptions for details) • Housing • O-Ring and Washers, seal rings, gasket & installation manual

Description	PN	Price
CL1000A-STC Kit with CH48109-1 Filter	08-01237	**$333.95**
CL1000A-STC Kit with CH48108-1 Filter	08-01236	**$333.95**
CL1000A-STC Adapter ONLY for Retrofit Lycoming Engine (see web for models)with 2/MAG & 2 Drive ONLY	08-01094	**$309.00**
CL1000A-EXP (EXPERIMENTAL) Kit with CH48109-1 Filter	08-00977	**$314.95**
CL1000A-EXP (EXPERIMENTAL) Kit with CH48108-1 Filter	08-00976	**$314.95**
CL1000A-EXP (EXPERIMENTAL) Adapter ONLY (no filter)	08-00975	**$289.95**

AEROQUIP E-Z OIL DRAIN SUMP VALVES

Makes aircraft oil changes easy. The hand actuated valve when attached to the oil drain port permits engine oil changes from the ground without removing the engine cowling. The spring loaded E-Z Drain valve cannot be accidentally opened. Actuation of the valve requires a combination push/twist motion. It also contains a dual seal arrangement which combines both an O-ring & metal-to-metal seal to prevent accidental leakage of oil through the valve. FAA Approved for use on the engines listed. Incorporates fine Aeroquip quality hose. Installation eligibility listing furnished with each unit.

Part No.	Engine Application	Thread	Price
AE99950G	Cont. C-90, O-200, GO-300, IO-360 TSIO-360, O-470, IO-470 TSIO-470, IO-520, TSIO-520, GTSIO-520	5/8-18	**$296.95**
AE80666H	Cont. O-300, late C-145	1-18	**$687.50**
AE80664H	Lycoming Engines	1/2NPT	**$249.95**

Valve O-Ring, All Models ...... MS28775-011 ....**$0.65 Ea.**
Interface O-Ring.................... AE99950G MS28775-113........**$0.47 Ea.**
AE805555H MS28775-118......**$0.42 Ea.**

Not to be used on Piper Models PA-28R-200, PA-28R-201, PA-28RT-200.

SAF-AIR OIL DRAIN SUMP VALVES

Changing hot engine oil has never been easier! With the SAF-AIR oil drain valve, no wrench is needed to remove the drain plug. A simple push and turn of the SAF-AIR valve locks it in the open position. The valve is made completely from anodized aluminum and stainless steel components. These materials are used throughout the aircraft industry due to their strength and durability. FAA & PMA APPROVED.

Part No.	Engine Application	Thread	Price
S6250	Cont. (same as Aeroquip AE99950G)	5/8-18	**$92.75**
S1000	Cont. (same as Aeroquip AE80666H)	1-18	**$97.75**
P5000	LYC (same as Aeroquip AE80664H)	1/2NPT	**$92.50**
M12175	ROTAX 912, 914	12mm x 1.75	**$43.95**
S7516	Cont IO-520-E	3/4"-16	**$97.75**
P7500	Franklin Engines	3/4" NPT	**$99.75**
S5020J	Jabiru 2200 / 3300	1/2"-20	**$44.50**
M20150	Subaru 2.2L / 2.5L	20-1.50mm	**$54.75**

SAF-AIR LOW PROFILE 2-PIECE OIL DRAIN SUMP VALVES

F62

Perfect for a close clearance engine oil drain application such as on the Piper Arrow. These low profile oil drain valves are designed to clear retractable landing gears & other restrictions. The valve is very affordable and can be rebuilt. It is a simple procedure to sample or drain hot oil. The valve is made from 360 brass & 302 stainless steel. FAA & PMA APPROVED. All valves come with a F50-180 opener.

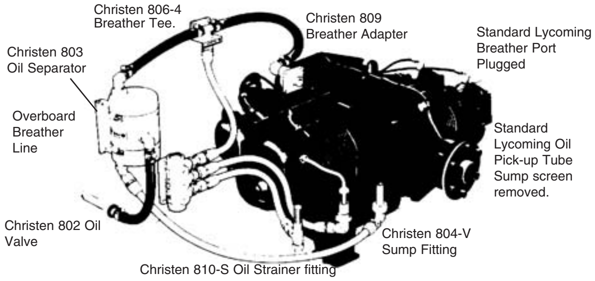
Mfg. No.	Engine App.	Thread	Part No.	Price
F62	Continental	5/8-18	05-00981	**$129.95**
F10	Pratt & Whitney	1-18	05-00982	**$129.75**
F50	Lycoming	1/2-18 NPT	05-00983	**$129.95**
F50-90 Bent	-Lycoming, Continental, Pratt & Whitney, Franklin	--	05-06924	**$27.50**
F50-180 Straight	-Lycoming, Continental, Pratt & Whitney, Franklin	--	05-15064	**$17.65**

CURTIS CCB-38000 LYCOMING LOW PROFILE OIL DRAIN VALVE

FAA PMA Approved low profile aluminum oil drain valve for Lycoming engines. Designed to fit in applications where there would be an interference from landing gear operations, hoses, and other objects preventing the use of an oil Drain valve and operation of draining oil. These components are anodized for corrosion protection. This valve does not include hose & clamps. FAA & PMA APPROVED. Aluminum Anodized. Thread Size: 1/2 NPT. Length: .789 Inch. Action: Spiral, Lock Open. Includes CCA-38001 Activation Tool. Anti-Seize compound required on threads for installation.
P/N 05-15400 ....**$107.85**

Prices Subject to Change Without Notice

CHRISTEN 801 INVERTED OIL SYSTEM



This accessory kit for Lycoming engines provides normal engine lubrication with minimal oil loss during aerobatic flight. It functions as a self-contained extension of the normal engine oil and breather systems. Can be installed in a few hours without engine disassembly.

Part No.	Description	Price
801-4	For four-cylinder engines. Includes 802 Oil Valve (with plug wrench and plugs for unused ports), 803 Oil Separator, 806-4 Breather Tee, and product manual which provides detailed instructions for application. Weight: 4.75 lb. installed.	$1,076.00
801-6	For six-cylinder engines. Same as 801-4 Kit, but is supplied with 806-6 Breather Tee. Weight: 4.75 lb. installed.	$1,088.00
811-V	For vertical-screen sump engines. Includes 810-S Oil Strainer Fitting, 810-R Oil Return Fitting, 804-V Sump Fitting (vertical type) with crush gasket and MS20822-10D elbow. Weight: 0.50 lb. installed.	$539.00
811-A	For horizontal-screen sump engines. Includes 810-S Oil Strainer Fitting, 810-R Oil Return Fitting, 805 Sump Plug with insertion tool, 804-A Sump Fitting (angular 360° swivel-type) with crush gasket and wrench for swivel clamping screw. Weight: 0.36 lb. installed.	$690.00
811-S	For horizontal-screen sump engines. Includes 810-S Oil Strainer Fitting, 810-R Oil Return Fitting, 805 Sump Plug with insertion tool, 804-S Sump Fitting (straight-type) with crush gasket. Weight: 0.33 lb. installed.	$598.00
809-K	For engines with forward breather ports such as the O-235 and O-290 models. Includes 809 Breather Adapter with gasket. AN842-12D hose elbow, and MS20913-6D plug for forward breather port. Weight: 0.53 lb. installed.	$303.00
812-2	For addition of oil ports to engine sumps. Includes two 812 Weld Bosses and quantity of 5% silicon-aluminum welding rod (type 4043) Weight: 0.12 lb. installed.	$163.75
812-1	Same as 812-2 Kit, except with only one 812 Weld Boss for addition of single sump port. Weight: 0.06 lb. installed.	$94.75
813-4	Stainless steel spring wire. Installed inside breather hose to permit relatively sharp bends without collapsing or kinking. 10 x 47/64". Weight: 0.12 lb. installed.	$99.85
813-6	Stainless steel spring wire. Installed inside breather hose to permit relatively sharp bends without collapsing or kinking. 10 x 63/64". Weight: 0.12 lb. installed.	$22.65
807-4	All hoses and fittings required for deluxe show-plane quality installation on four-cylinder engines. Includes Aeroquip braided stainless steel hose for oil lines, MIL-H-6000 rubber-fabric hose for breather lines, thin abrasive cut-off wheel for professional-quality hose cuts, AN and MS fittings (blue anodized), Aeroquip hose end fittings (blue and red anodized), and miniature stainless steel hose clamps. All materials are factory new; no surplus. Weight Excluding Hose: 1.53 lb. installed.	$1,511.00
807-4 Economy Hose & Fitting Kit	These kits include same items as Aviat Factory Kits but are packaged by Aircraft Spruce.	$705.00
807-6 Economy Hose & Fitting Kit		$721.00

10-page detailed manual - describes system operation & procedure for selecting proper components for each engine model.
P/N 05-20600............**$17.50 ea.**

CHRISTEN OIL VALVE

Multiple port gravity operated ball valve. It is cast aluminum with textured white epoxy enamel finish and all internal steel parts are cadmium plated. Normally installed on firewall or on engine mount. Designed for fittings to be installed either at side or front or both. Requires 3 AN816-10D nipples for hose connection. Wt. 1.75 lbs. installed. P/N 08-06745 .... **$385.00**

CHRISTEN OIL SEPARATOR

Features welded aluminum construction with a textured white epoxy enamel finish. All internal parts are cadmium plated, and unit includes stainless steel positioning clamps. Normally installed on fire wall or on engine mount. Requires 2 AN842-12D or -16D hose elbows and one AN823-10D hose fitting. Wt. 2.8 lbs. installed. Applicable to all Lycoming engine applications. Used to replace a worn out or broken oil separator on Christen 801-4 systems only. P/N 08-06740 .... **$473.00**

AERO CONVERSIONS OIL SEPARATOR

A high-quality welded and powder-coated aluminum assembly designed to save oil vs. direct overboard crankcase breathers in normal flight operations. Features an extra-high-volume design offering enhanced inverted flight performance in entry-level aerobatic aircraft, allowing oil to be retained and returned to the engine during short-duration inverted and limited negative G maneuvers. The angled design makes it a perfect fit for Sonex Aircraft angled firewalls, while retaining compatibility with traditional vertical firewall installations in other aircraft. Comes with comprehensive installation instructions suitable for a wide-range of engine installations. P/N 08-07107 .... **$128.75**

BOGERT AVIATION 180 DEGREE OIL QUICK DRAIN PROBE

Drain probe not only gives you an alternative to the high priced AVI probe but it includes some major improvements. Probe is leak proof! The AVI design could leak where it mates to the valve plunger making a mess. This design incorporates an O-ring seal around the valve body preventing leaks. The O-ring also locks the probe to the valve body. Also note the larger drain tube to speed up the oil flow and prevent restrictions.
Valve NOT included, this is Probe ONLY
P/N 12-03289........................ **$73.75**

BOGERT AVIATION 90 DEGREE OIL QUICK DRAIN PROBEOIL QUICK DRAIN PROBE

This drain probe not only gives you an alternative to the high priced AVI probe but it includes some major improvements. The first big improvement is that the probe is leak proof. The AVI design could leak where it mates to the valve plunger making a mess. Incorporates an O-ring seal around the valve body preventing leaks. The O-ring also locks the probe to the valve body. The compactness of the probe, is actually shorter than the BJ 107B making it easier to install. 09M-PRB90 Replaces: • Piper part number 481-359 • Beechcraft part number 107-B • Auto Valve Inc. AVI-BJ-107B P/N 12-03237........................ **$73.75**

RAVEN INVERTED OIL SYSTEMS

The Raven Full Oil System includes a CNC machined adjustable valve. There are no extra holes to plug, you simply rotate it to where you want it. The system includes the valve, mount and clamps, as well as the air/oil separator, mount and clamps. Both the valve and separator use stainless steel internal parts and are powder coated for durability. The weight of all components is 4 ½ lbs.

The Raven Half System is the breather portion of the full inverted system, it is used to perform basic positive G aerobatics where a full inverted system is not required, it will catch and return approx 95% of the oil that would normally end up overboard when performing basic maneuvers.

Description	Kit Contents	Color	PN	Price
Half Inverted Oil System 4"	Air/Oil Separator & Mount with Clamps & Sump Return Fitting	Black	08-15637	$391.50
Half Inverted Oil System 4"		White	08-15638	$479.00
Full Inverted Oil System 5"	Valve & Mount with Clamps, Air/Oil Separator & Mount with Clamps	Black	08-00796	$899.00
Full Inverted Oil System 5"		White	08-00800	$899.00
Full Inverted Oil System 4"		Black	08-00797	$899.00
Full Inverted Oil System 4"		White	08-00801	$933.00

RAVEN INVERTED SYSTEM VAC ADAPTERS

These vac adapters are machined from solid aluminum with anodized finish. Furnished with a seal installed, and complete with AN fitting and gaskets.
Vac-4 for 4 cyl Lycomings
P/N 08-00785...................................... **$263.95**
Non-Acc'y Vac Pad Oil P/U
P/N 08-00786.. **$66.75**

RAVEN SUMP FITTING KITS

These sump fitting kits come with specialized fittings, washers , O rings needed to install the kit.

Sump kit for Horizontal screen 4 or 6 cyl. Lyc.
P/N 08-00787 .. **$508.00**
With Straight Fitting ... P/N 08-00787 .. **$508.00**
With 45° Swivel.......... P/N 08-15780 .. **$512.00**

EP

AIRWOLF AIR/OIL SEPARATORS

The Airwolf Air/Oil Separator will improve the efficiency of your aircraft dramatically whether it is a single engine fun craft of a twin powered corporate plane. Designed to separate air and oil in the crankcase breather & wet vacuum pump systems on conventional aircraft engines, Airwolf recovers oil from the crankcase, thus eliminating the oily overboard discharge and the ever present "oily belly" syndrome. Oil loss is greatly reduced - tests have indicated a recovery of up to 80% of crankcase oil previously wasted, depending on the type and condition of the engine.

The Airwolf oil recovery system is only slightly larger than an oil filter cartridge (4" dia. x 7.5") and it is available for all conventional engines regardless of displacement. It can be easily removed and disassembled for inspection and cleaning. With no moving parts, the Airwolf is designed to last the life of your engine. Available for planes with either wet or dry vacuum pump. Now STC'd for most aircraft. Available in black epoxy finish only. Specify aircraft model no., serial no., and engine model.

Airwolf Part No.	Part No.	Price
AFC-302-A	08-03806	**$595.00**
AFC-304-H	08-13269	**$795.00**
AFC-314-B	08-13288	**$530.00**
AFC-314-C	08-13289	**$824.00**
AFC-314-D	08-13290	**$589.00**
AFC-315-B	08-13292	**$795.00**
AFC-335-C	08-13604	**$648.00**
AFC-5006	08-05630	**$895.00**
AFC-700	08-07390	**$32.95**
AFC-CH1	08-07394	**$149.95**
AFC-K001	08-05605	**$569.00**
AFC-K005	08-05635	**$995.00**
AFC-K007-A	08-05660	**$595.00**
AFC-K007-B	08-05665	**$595.00**
AFC-K007-C	08-05670	**$795.00**
AFC-K007-F	08-00038	**$595.00**
AFC-K007-G	08-13248	**$595.00**
AFC-K008-A	08-05675	**$595.00**
AFC-K008-B	08-05680	**$595.00**
AFC-K008-C	08-05685	**$595.00**
AFC-K008-D	08-05690	**$595.00**
AFC-K008-E	08-05700	**$595.00**
AFC-K008-F	08-05800	**$695.00**
AFC-K008-G	08-05805	**$595.00**
AFC-K008-H	08-05810	**$595.00**
AFC-K009	08-05815	**$1,299.00**
afc-k01-ca	08-07385	**$929.00**
AFC-K015-A	08-00995	**$895.00**
AFC-K015-B	08-00039	**$1,030.00**
AFC-K015-CA	08-00996	**$1,126.00**
AFC-K015-CB	08-07386	**$940.00**
AFC-K015-D	08-00997	**$1,595.00**
AFC-K015-E	08-00998	**$895.00**
AFC-K015-F	08-00999	**$995.00**
AFC-K015-G	08-01001	**$995.00**
AFC-K015-H	08-01002	**$995.00**
AFC-K015-J	08-01003	**$995.00**
AFC-K015-K	08-07297	**$995.00**
AFC-K015-L	08-01004	**$895.00**
AFC-K016-A	08-07298	**$523.00**
AFC-K016-C	08-07300	**$1,234.00**
AFC-K016-D	08-07301	**$1,234.00**
AFC-K016-E	08-07302	**$995.00**
AFC-K017-B	08-13612	**$595.00**
AFC-W300-A	08-00645	**$595.00**
AFC-W300-B	08-13253	**$595.00**
AFC-W300-C	08-13254	**$695.00**
AFC-W300-D	08-13255	**$795.00**
AFC-W301-A	08-13256	**$595.00**
AFC-W301-B	08-13257	**$595.00**
AFC-W301-C	08-13258	**$695.00**
AFC-W301-D	08-13259	**$795.00**
AFC-W302-B	08-13260	**$695.00**
AFC-W303-A	08-13261	**$595.00**
AFC-W303-B	08-13262	**$695.00**
AFC-W304-A	08-01299	**$595.00**
AFC-W304-B	08-13263	**$895.00**
AFC-W304-C	08-13264	**$595.00**
AFC-W304-D	08-13265	**$695.00**
AFC-W304-E	08-13266	**$895.00**
AFC-W304-F	08-13267	**$895.00**
AFC-W304-G	08-13268	**$895.00**
AFC-W305	08-13270	**$595.00**
AFC-W306-A	08-07398	**$595.00**
AFC-W306-B	08-13271	**$699.00**

Airwolf Part No.	Part No.	Price
AFC-W306-C	08-13236	**$595.00**
AFC-W306-D	08-13273	**$595.00**
AFC-W307-A	08-01301	**$595.00**
AFC-W307-B	08-13274	**$595.00**
AFC-W309-A	08-01302	**$695.00**
AFC-W309-B	08-13276	**$648.00**
AFC-W309-C	08-13278	**$895.00**
AFC-W309-D	08-13279	**$1,495.00**
AFC-W309-E	08-13280	**$795.00**
AFC-W310	08-13281	**$765.00**
AFC-W311-A	08-01303	**$595.00**
AFC-W311-B	08-13282	**$795.00**
AFC-W311-D	08-13283	**$895.00**
AFC-W311-E	08-13284	**$895.00**
AFC-W311-F	08-13285	**$895.00**
AFC-W312-A	08-13286	**$595.00**
AFC-W314-A	08-03834	**$595.00**
AFC-W315-A	08-13291	**$595.00**
AFC-W315-C	08-13293	**$795.00**
AFC-W316-A	08-00652	**$595.00**
AFC-W316-B	08-13294	**$648.00**
AFC-W316-C	08-13297	**$795.00**
AFC-W316-D	08-13295	**$795.00**
AFC-W316-E	08-13298	**$795.00**
AFC-W316-F	08-13299	**$795.00**
AFC-W317	08-13300	**$595.00**
AFC-W318-A	08-01297	**$899.00**
AFC-W318-B	08-13571	**$895.00**
AFC-W318-D	08-13572	**$895.00**
AFC-W319	08-13573	**$545.00**
AFC-W320	08-13574	**$995.00**
AFC-W321-A	08-00655	**$595.00**
AFC-W321-B	08-13575	**$595.00**
AFC-W321-C	08-13576	**$595.00**
AFC-W321-D	08-13577	**$595.00**
AFC-W322	08-01304	**$595.00**
AFC-W323-A	08-01306	**$595.00**
AFC-W323-B	08-13578	**$699.00**
AFC-W323-C	08-13579	**$895.00**
AFC-W323-D	08-13580	**$795.00**
AFC-W324	08-13582	**$795.00**
AFC-W325	08-13583	**$530.00**
AFC-W327-A	08-13584	**$595.00**
AFC-W327-B	08-13585	**$695.00**
AFC-W328	08-13249	**$595.00**
AFC-W329-A	08-13588	**$545.00**
AFC-W329-B	08-13589	**$695.00**
AFC-W329-C	08-13590	**$795.00**
AFC-W330	08-13591	**$530.00**
AFC-W331-A	08-13592	**$530.00**
AFC-W331-B	08-13593	**$595.00**
AFC-W331-C	08-13594	**$895.00**
AFC-W331-D	08-13595	**$845.00**
AFC-W332-A	08-13596	**$595.00**
AFC-W332-B	08-13597	**$595.00**
AFC-W332-C	08-13598	**$445.00**
AFC-W333-A	08-13599	**$795.00**
AFC-W333-B	08-13600	**$1,045.00**
AFC-W334	08-13601	**$595.00**
AFC-W335-A	08-13602	**$695.00**
AFC-W335-B	08-13603	**$695.00**
AFC-W335-D	08-13605	**$795.00**
AFC-W336-A	08-13606	**$445.00**
AFC-W336-B	08-13622	**$595.00**
AFC-W337-A	08-13623	**$595.00**

Airwolf Part No.	Part No.	Price
AFC-W337-B	08-13625	**$595.00**
AFC-W338-A	08-13626	**$595.00**
AFC-W338-B	08-13627	**$695.00**
AFC-W339-A	08-13628	**$595.00**
AFC-W339-B	08-13629	**$595.00**
AFC-W340-A	08-13630	**$595.00**
AFC-W340-B	08-13631	**$595.00**
AFC-W341-A	08-13632	**$645.00**
AFC-W341-B	08-13633	**$795.00**
AFC-W341-C	08-13634	**$795.00**
AFC-W341-D	08-13635	**$795.00**
AFC-W342	08-13636	**$595.00**
AFC-W343-B	08-13638	**$595.00**
AFC-W344-A	08-13639	**$695.00**
AFC-W345-A	08-13640	**$795.00**
AFC-W345-B	08-13641	**$795.00**
AFC-W346	08-13642	**$530.00**
AFC-W347-A	08-13643	**$824.00**
AFC-W347-B	08-13644	**$595.00**
AFC-W347-C	08-13645	**$1,065.00**
AFC-W348-A	08-13646	**$595.00**
AFC-W348-B	08-13647	**$595.00**
AFC-W348-C	08-13648	**$595.00**
AFC-W349-A	08-13649	**$695.00**
AFC-W349-B	08-13650	**$695.00**
AFC-W349-C	08-13651	**$795.00**
AFC-W350	08-13652	**$412.00**
AFC-W351	08-13653	**$412.00**
AFC-W352-A	08-13655	**$530.00**
AFC-W352-B	08-13656	**$595.00**
AFC-W352-C	08-13657	**$595.00**
AFC-W352-D	08-13658	**$595.00**
AFC-W353-A	08-13659	**$595.00**
AFC-W354-A	08-13660	**$595.00**
AFC-W355-A	08-13661	**$595.00**
AFC-W355-B	08-13662	**$795.00**
AFC-W357-A	08-13663	**$1,045.00**
AFC-W357-B	08-13664	**$1,045.00**
AFC-W358-A	08-13665	**$645.00**
AFC-W359-A	08-13666	**$645.00**
AFC-W361-A	08-13667	**$645.00**
AFC-W362	08-13668	**$645.00**
AFC-W363	08-13669	**$795.00**
AFC-W364	08-13670	**$695.00**
AFC-W365	08-13672	**$1,045.00**
AFC-W367-A	08-13674	**$745.00**
AFC-W367-B	08-13675	**$1,045.00**
AFC-W368-A	08-13676	**$595.00**
AFC-W368-B	08-13677	**$595.00**
AFC-W368-C	08-13678	**$795.00**
AFC-W369	08-13679	**$695.00**
AFC-W400	08-07189	**$498.00**
AFC-W410	08-05887	**$495.00**
AFC-W420	08-07188	**$450.00**
AFC-W440	08-07190	**$465.00**
AFC-W699-B	08-13673	**$765.00**
AFC-W70	08-13681	**$530.00**

VERIFY AIRCRAFT APPLICATION BEFORE ORDERING. VISIT WWW.AIRCRAFTSPRUCE.COM FOR AIRCRAFT APPLICATION CHART.

Airwolf W-2300 Air/Oil Separator gasket........................P/N 08-13956 ....**$9.85**

TEMPEST ENGINE MOUNTED OIL FILTER ADAPTER

P/N 08-00631

Tempest engine mounted oil filter adapters eliminate the need for oil screens and provide increased filtering capabilities for longer engine life. Being engine mounted with no external lines, they reduce mess during oil changes and increase the time between oil changes. STC APPROVED. Note: Tempest filters are included with adaptors. Price listed is for one adapter each.

FM Model	Aircraft Application	Engine Application	Part No.	Price
T.A.F.-L	Cont. C-75-12 C-85-12 O-200 O-200A	Cessna 120, Cessna 140, Cessna 150, Luscombes, Taylorcrafts, Cubs Note: Will only for Cubs with pressure cowls (totally encloses the engine). Will not work on Cubs that cylinders stick out through the cowling.	08-00631	**$325.00**
CO-300	Cont. C-125, C-145, CO-300	Cessna 170, 172, Globe Swift, Maule	08-00632	**$367.00**
C6LC-S	Cont. O-470, Cont. IO-470, Cont. IO-520	Bellanca Viking, Cessna 182, 55 series Beech Baron	08-00633*	**$439.00**
C6LC-L	Cont.O-470 IO-470, IO-520	Cessna 205, 206, 207, 210,310, Beech Bonanza & Debonair, Navion, Meyers, Twin Commander,Widgeon	08-00634	**$434.00**
C6LC-11/15	Cessna L-19 "Bird Dog"	Continental Motors 0-470-11 and 0-470-15	08-01037	**$472.00**
C6SC	Cessna 175, Cessna 172 Hawk XP, Maules, Cessna 337, Cessna 336, Cessna 0-2, Mooney M20-K, Piper Turbo Arrow III & IV, Piper Seneca II, PA-34-200T	Continental GO-300 Series & IO-360 Series	08-01038	**$472.00**

**** WILL NOT FIT AIRCRAFT WITH FLOATS***

TEMPEST OIL FILTER ADAPTER GASKETS

These Gaskets work with the Tempest Oil Filter Adapters, see your manual to ensure proper selection.

Tempest Gasket FM-02 .... P/N 08-13896 .... **$13.55**
Tempest Gasket FM-07 .... P/N 08-00978 .... **$15.40**

AIRWOLF MINI AIR/OIL SEPARATOR

Reduce oil consumption and remove harmful water vapor with Airwolf's Walker Air/Oil Separator. The AirSep distills and recirculates crankcase oil vapor generated by normal operation, extending engine life.

The Airwolf Walker AirSeps uses a tiny amount of vacuum pump discharge air, to help condense the oil inside the AirSep, and to overcome crankcase pressure to return collected oil to the engine while the engine is running. The competitive systems are only gravity flow so no oil returns into the engine until the engine is completely shut off. Thus, one system is large enough to clean both the engine breather oil and wet vacuum pumps discharge. It comes with a lifetime warranty on workmanship and material of all new AirSeps produced. STC'd

MiniSep, 3/4" Inlet .... P/N 08-05887 ...... **$495.00**
MiniSep, 1" Inlet .... P/N 08-07188 ...... **$450.00**
MiniSep, 5/8" Inlet .... P/N 08-07189 ...... **$498.00**
Wet Vacuum Pump MiniSep, 5/8" Inlet .... P/N 08-07190 ...... **$465.00**

CHALLENGER STAINLESS STEEL MICRONIC OIL FILTER FOR ROTAX 912/914 ENGINES

The filter element is made from medical grade, type 304 stainless steel micronic filter cloth providing unmatched protection against oil contamination and resultant engine damage.

A rare earth magnet is installed in the top of the element for magnetic pre-filtering of the oil. The unique twist lock design allows for easy disassembly, inspection and cleaning. The quad-ring gasket doubles the seal between the filter and the engine . The filter housing is carved out of a solid piece of 6061 T6 billet aluminum with cooling fins, which not only looks good but aids in dissipating heat.

Features: • Cleanable and Reusable • High Flow Rate • Unique Twist Lock Design • Exteriors Fins • Unaffected by Water, Heat, or Pressure • Safety Wire Attachments 360 degrees • Environmentally Friendly.

P/N 08-07174 .... **$195.50**

CHALLENGER FAA/PMA LIFETIME OIL FILTER SYSTEM

The filter element is made from medical grade, type 304 stainless steel micronic filter cloth providing unmatched protection against oil contamination and resultant engine damage.

A rare earth magnet is installed in the top of the element for magnetic pre-filtering of the oil. The unique twist lock design allows for easy disassembly, inspection and cleaning. The quad-ring gasket doubles the seal between the filter and the engine . The filter housing is carved out of a solid piece of 6061 T6 billet aluminum with cooling fins, which not only looks good but aids in dissipating heat.

Features: • Cleanable and Reusable • High Flow Rate • Unique Twist Lock Design • Exteriors Fins • Unaffected by Water, Heat, or Pressure • Safety Wire Attachments 360 degrees • Environmentally Friendly.

Challenger	Replaces	Our P/N	Engine Model	Price
CP-48103C 13/16-16 Thread w/o relief valve	CH48103-1	08-06017	LYCOMING O-320, IO320, O360,IO-360, LO-360, TO-360, HIO-360, LTO-360, LHIO-360 SERIES	**$295.00**
CP-48108C 3/4-16 Thread w/o relief valve	CH48108-1	08-06019	CONTINENTAL 6-285, IO-346, IO-360, TSIO-360, O-470, IO-470, LIO-470, TSIO-470, IO-520, TSIO-520, GTSIO-520, LTSIO-520, IO-550 SERIES	**$295.00**
CP-48109C 3/4-16 Thread w/ relief valve	CH48109-1	08-06020		**$295.00**
CP-48110C 3/4-16 Thread w/ Nipple w/o relief valve	CP48110-1	08-06021	LYCOMING O-235, IO-320 SERIES LIO-320, AIO-3230, AEIO-320, O360,IO360, AIO-360, HIO-360,LIO-360, TIO-360, LHIO-360, AEIO-360, O-540, IO-540, HIO-540, TIO-540, AEIO-540, LTIO-540, TIO-541, IO-580, IO-720 SERIES	**$295.00**
CP-48111C 3/4-16 Thread w/nipple w/o relief valve	CH48111-1	08-06022		**$295.00**
CP-9124C w/ relief valve	8245-706	08-07174	Bombardier-Rotax 912 F2, 912 F3, 912 F4, 912 S2, 912 S3, 912 S4, 914 F2, 914 F3, 914 F4	**$195.50**

CHALLENGER OIL FILTER ELEMENT REPLACEMENTS

The filter element is made from medical grade, type 304 stainless steel micronic filter cloth providing unmatched protection against oil contamination and resultant engine damage. A rare earth magnet is installed in the top of the element for magnetic pre-filtering of the oil. The unique twist lock design allows for easy disassembly, inspection and cleaning. The quad-ring gasket doubles the seal between the filter and the engine . The filter housing is carved out of a solid piece of 6061 T6 billet aluminum with cooling fins, which not only looks good but aids in dissipating heat.

Challenger	Application	PN	Price
CP-621	CHALLENGER 48103, 48104	08-07370	**$154.95**
CP-620	CHALLENGER 48108, 48109	08-07369	**$154.95**
CP-619	CHALLENGER 48110, 48111	08-07366	**$159.00**
CP-720	CHALLENGER 9124C	08-07371	**$140.95**

CHALLENGER ACCESSORIES

Description	Part No.	Price
CP-621 48103, 48104 Element	08-07370	**$154.95**
CP-620 48108, 48109 Element	08-07369	**$154.95**
CP-619 48110, 48111 Element	08-07366	**$159.00**
CP-720 9124C Element	08-07371	**$140.95**
CP-623 Oil Filter Quad Seal Gasket	08-07186	**$5.95**

OIL FILTER BIB

For horizontal or angle-mounted filters. No more messy oil changes! Catches the Oil & the Filter. No Dripping. No Spillage. No Messy Clean-Ups. Easy To Use. Slide Bib Around the Oil Filter, pull up on Tabs and Tilt to Form a Seal, and unscrew the Oil Filter. Withstands High Temperature. Will not melt, weaken or leak from Hot Engine Oil and Filter. Great for filters in tight places. Fits any sized filter. Disposable.

3 pack .... P/N 12-04883 .... **$11.95**
10 pack .... P/N 12-04884 .... **$35.95**

SUPER SLIME FIGHTER®

Following in the success of the Slime Fighter® series of air separators, Aircraft Spruce now offers the Super Slime Fighter with the same ease of installation for large Lycoming engines found in aircraft such as the RV-10, Glassair III and the F1 Rocket. Installs in 20 minutes with no additional drain line required. Includes instructions. Clamps and hoses are only included in the RV-10 kit. RV-10 kit includes custom hose shape. Not FAA approved.

Standard (80HP-160HP) .... P/N 08-13971 .... **$168.75**
Mid-Size (160HP-220HP) .... P/N 08-13972 .... **$197.85**
Large (220HP-320HP) .... P/N 08-13973 .... **$214.95**
RV10 Experimental .... P/N 08-06152 .... **$246.95**

HOMEBUILDER'S OIL BREATHER/SEPARATOR

These 4 inch diameter reservoirs have beaded outlets for 5/8" I.D. hoses and a mounting flange for easy firewall attachment. These units are of a new, improved design and the reservoir body is now a spun aluminum bowl for optimum performance. The oil separators minimize oil loss and allow free breathing of the engine. They are recommended for experimental aircraft use only and are not STC'd for any certificated aircraft. Size: 4"dia.x 3-3/8"h. P/N 10570................................ **$49.50**

RMJ-AERO OIL SEPARATOR

Designed to remove oil from the engine crankcase breather line providing the builder with a cleaner plane, less oil consumption, and prolonged engine life from maximum cooking, cleaning, & lubrication. Fashioned after Tony Bingelis' proven design, these separators incorporate several enhancements, including O-ring seals for the lid. Fabricated from aircraft quality materials, TIG welded, and alodyned for corrosion control. They can be firewall or cooling baffle mounted with the cushion clamp provided. The design allows for easy installation in the breather line by the use of hose clamps. Oil from the separator is returned thru tubing to a port in your engine's housing. Should your engine not have an available oil return port, RMJ-Aero can provide a Self Sealing Clamp-On Adapter utilizing your engine's oil filler neck. Installation of this adapter is easy for both flying and aircraft under construction. When clamped in place around the filler neck, the adapter provides a return port for separated oil and an integral seal, which prevents leakage. Installation & maintenance guidelines are included.

Description	Part No.	Price
Oil Separator for Lycoming (3/4" inlet/outlet)	08-00571	**$259.95**
Oil Separator for Cont. (5/8" inlet/outlet)	08-00572	**$259.95**
Adapter for Lycomings	08-00577	**$31.75**
Adapter for Continentals	08-00578	**$32.50**

ANDAIR OIL/AIR SEPARATOR

The OS8850 has been designed to remove the oil from the crankcase breather on Lycoming and Continental Engines. This gives reduced oil consumption, cleaner aircraft, and environment. * Upper outlet can rotate through 360° allowing easy installation. * The unit can be dismantled for inspection/cleaning. * Vortex swirl separation. O-Ring seals. * Light weight: 6.4 oz. * 4 off 10-32 mounting lugs on the base of the separator for easy fire wall mounting.

P/N 08-01034 .... **$360.00**

ANDAIR CONDENSATION TRAP

This new device is a small and very light weight condensation trap. It is used to extract the water from the oil when used in conjunction with the Andair Oil / Air Separator. Water can build up in the engine due to water in the air condensing during a cold night. Overnight this water sinks to the bottom of the sump settling at the lowest point. This is generally where the oil pump pick up is. Therefore there is a real potential that if one of these devices is not used water can build up in the engine. Flight test have shown that the worst possible condition for water in the oil is on humid days, cold nights and where short flights are undertaken.

P/N 08-01035 .... **$112.80**

METAL CHECK ENGINE OIL ANALYSIS KIT

This oil analysis kit is used for determination of the condition of oil wetted engine parts, even on the first sample. This laboratory analysis consists of ICP (Inductively Coupled Plasma Spectroscopy) quantitation of 12 wear metal elements for piston and turbine engines. The analysis is completed in 24 hours - abnormal results are communicated immediately. Available in two versions: with return postage included and without return postage included to fit your needs! AV Lab is recommended or authorized by most engine manufacturers. The kit is excellent for pre-purchase inspection.

Not applicable for hydraulic fluid.

OIL ANALYSIS RESULTS - INCLUDING INTERPRETATION AND STATISTICAL ANALYSIS, ARE AVAILABLE ONLINE.

Return Postage Included .... P/N 08-00931 .... **$22.95**
Return Postage Not Included .... P/N 08-10691 .... **$16.85**

METAL CHECK AIRCRAFT ENGINE OIL FILTER ANALYSIS KIT

Includes oil and oil filter analysis. Oil filter debris analysis should be part of all preventative maintenance programs. Filter analysis is critical for turbine engines because they generate predominately larger wear particles that are trapped by small micron filtration. The oil filter is rinsed and the exact alloys presents in the debris are determined by SEM/EDXRF. The AMS number, amount, type, form, and condition of the particles are reported. Features: • Largest Oil Analysis Results Database •The Most Accurate Interpretive Results Guidelines • The Most Experienced staff. • Recommended, Approved, or Authorized by Engine Manufacturers. • 24 Hour a Day Service Available 7 Days a Week. Large Oil Analysis Kit. P/N 08-06270............ **$72.65**

CHAMPION OIL FILTER ANALYSIS KIT

Champion Oil Filter Analysis Kit can help you detect abnormal engine wear and even predict impending engine trouble, because it provides a comprehensive analysis of both the larger wear particles in the oil filter and the finer wear particles in the engines oil.

P/N 08-01051 .... **$117.95**

OIL DIPSTICKS

New manufacture oil tank dipsticks stamped with proper calibration markings.

Dipstick Long Neck 13-3/4" .... P/N 08-00037 .... **$56.75**
Dipstick Short Neck 9-1/2" .... P/N 08-04612 .... **$56.75**
Dipstick 6 Qt. Short Neck 11-3/4" for O-200, C-90
P/N 08-04613 .... **$55.75**
Dipstick 4 Qt. Ercoupe long Neck 18-3/4"
P/N 08-04614 .... **$63.75**

VERNI-THERM VALVE - Lycoming thermostatic oil cooler bypass valve wt. 4 oz. P/N 08-12154................... **$433.36**

THIXO # 2 AVIATION GREASE - 425 GRAM TUBE

ThixO #2 Aviation Grease: A high performance water resistant grease using advanced thickening agents and superior lubricant chemistry. ThixO #2 Aviation Grease is a specialty lubricant designed for specific aviation applications primarily to prevent rust, corrosion, and seizing of critical components in drives, hub sets and splines. ThixO#2 Aviation Grease demonstrates outstanding sheer stability and exhibits a broad temperature range (-35C to >250C) dependent on application requirements.

P/N 08-13829 .... **$22.95**

THIXO SYNTHETIC AVIATON GREASE - 400 GRAM TUBE

ThixO SYN Aviation Grease: A high performance synthetic extreme temperature grease using overbased calcium sulphonate thickener and advanced lubricant chemistry. Specifically designed for aviation applications. ThixO SYN Aviation Grease is a specialty lubricant designed for specific aviation applications including helicopter rotor shafts, splines and hub assemblies for the Bell 206A, 206B and 206 L Models.

P/N 08-13830 .... **$26.95**

DOW CORNING 55 MOLYKOTE O-RING GREASE

Molykote 55 is a strong, silicone-based substance that will swell natural rubber and other materials to make a more powerful seal.

Typical Use: Used for dynamic lubrication and sealing between rubber and metal parts in pneumatic valves. Typical applications are found within the aircraft, automotive and other industries.

5.3 oz. Tube .... P/N 08-13684 .... **$24.75**
8 Lb. Can................. P/N 08-13685 .... **$426.00**

Prices Subject to Change Without Notice

OIL COOLERS

OIL COOLER APPLICATION CHART

Aircraft Model	Aero-Classic Part No.	Positech Part No.	Stewart Warner Part No.
Beech 10, C23, A24R, C24R	8000075	4211	8406R
Cessna 150,152,A152,170,170,172,175,177	8000075	4211	8406R
Experimental	8000081	4215	10599
Piper PA23-150, PA28-140, PA23-160 (SN 23-163 up), PA28-150, -151, PA28-160, -161, PA28-180, -181	8000075	4211	8406R
PA18, PA18A, PA22-135, -150, -160	8000328		
Pitts S2B	8000215	4219	10611
Stinson 108, 108-1, -2, -3	8000075	4211	8406R
Taylorcraft F22B, F22C, F22R	8000075	4211	8406R

MEGGITT TROY OIL COOLERS

MEGGITT TROY 8406R

MEGGITT TROY South Wind 8406R (formerly Harrison P/N 8526250). Applicable to all Lycoming installations from 4-cylinder 0-235 through 6-cylinder IO-540 engines. Inlet & outlet ports accept 3/8" pipe fittings. Fits Beech B-19 Sport (0-320-E2C), C-23 Sundowner (0-360-A4G), Muskateer (0-360-A2G), Cessna 172 Skyhawk (0-320-E2D), 177 Cardinal (I0-360-AF6D), 177 Cardinal (0-0-360-A1FG), 177 Cardinal RG (0-360-AFGD), Mooney Ranger (0-360-A2D). Size: 7.75"l x 3.5"d x 4.75"h. Wt.: 4 lbs.

Model 8406R .... P/N 8406R **$860.00**

Model 8432R–Fits BeechA24R Sierra (IO-360-A2B), Mooney Chaparral (IO-360-A1A), Mooney Mark 22 (TIO-541-A1A). Weight 4 lbs. size: 5-3/4"Hx8"Wx3-5/8"L .... P/N 8432R **$948.00**

Model 10611R - Fits Piper Single Engines....... P/N 10611R .. **$759.00**

Model 10599R - Fits Cessna and Stoddard ..... P/N 10599R .. **$716.00**

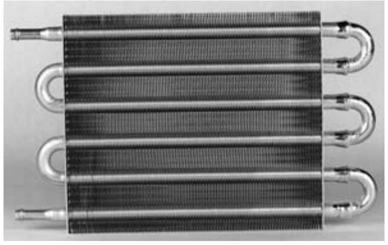
Model 10578R - Fits Gulfstream AA-1 .... P/N 10578R .. **$654.00**

Model 10610R - Fits Cessnas .... P/N 10610R .. **$719.00**

Model 10568R - Fits Gulfstream AA5B, GA-7.. P/N 10568R .. **$623.00**

Note: The oil coolers manufactured by MEGGITT TROY formerly Stewart Warner will fit the aircraft listed but in most cases are not furnished with the FAA/PMA certification for those aircraft. The exceptions are P/N 8406R and P/N 8432R are furnished with FAA/PMA approval for certain Mooney aircraft. For all other applications, Form 337 field approvals are required for installation on certificated aircraft. Call for further information.

LIGHTWEIGHT OIL COOLER FOR HOMEBUILTS



Lightweight, compact oil cooler improves cooling in closely cowled homebuilts. Mounts in any position. Furnished with 4 ft. of 5/16" I.D. hose and 4 clamps. Size 7-1/2H x 12-3/4L x 3/4D.

P/N 403 .... **$61.75**

HOMEBUILDER'S ENGINE CRANK CASE OIL BREATHER

This is a 3-1/4" dia. can reservoir with a 3/4" or 5/8" od hose barb outlet, 1/8npt curtis drain valve on bottom of can, and a fire wall mounting bracket. Item also available with a 5/8 od hose barb outlet, please call or email for price & availability. It keeps oil in can and off belly of airplane then can be drained later with petcock. Helps to keep crank case condensation to a minimum. Recommended for experimental aircraft use only not STC'd for certified aircraft.

3/4" od hose barb outlet ....P/N 08-00765 ....**$105.85**

5/8" od hose barb outlet ....P/N 08-07219 ....**$105.85**

AERO CLASSICS REMOTE MOUNT OIL COOLERS

8000357
Bar & Plate

Aero Classics offers the General Aviation community the largest number of FAA-PMA. (Federal Aviation Administration - Parts Manufacturing Authority) approved oil coolers in the world. Remote-mount oil coolers mount to the airframe or engine baffle instead of directly to the engine. Hoses are used to connect the oil cooler to the engine. This type of oil cooler is used with most non-Continental engines including all Lycoming engines. All FAA-PMA approved with supporting FAA 8130-3 documentation unless otherwise noted. All models have 3/8 NPT inlets and outlets. All Aero-Classic coolers come with a full two year warranty. Note: Models 8000081, 8000706 & 8000942 are for experimental aircraft only. Not FAA-PMA Approved. ******May not work with all applications******

Model No.	Description	FAA/PMA Approved	Part No.	Price
8000075	7 Row Drawn Cup	YES	08-00640	**$307.00**
8000074	9 Row Drawn Cup	YES	08-00641	**$309.00**
8000081*	10 Row Drawn Cup	NO	08-00642	**$323.00**
8000215	13 Row Drawn Cup	YES	08-00643	**$349.00**
8000216	17 Row Drawn Cup	YES	08-00644	**$445.00**
8000353	18 Row Drawn Cup	YES	08-00808	**$510.00**
8000328	Bar & Plate	YES	08-00809	**$669.00**
8000343	9 Row 2 Pass Drawn Cup	YES	08-00810	**$675.00**
8000356	Bar & Plate	YES	08-00811	**$762.00**
8000357	Bar & Plate	YES	08-00812	**$762.00**
8000590	Bar & Plate with Valve	YES	08-07408	**$2,901.80**
8000661	13 Row Drawn Cup	YES	08-07409	**$479.00**
8000618	Bar & Plate with Valve	YES	08-07410	**$2,309.27**
8000706	Bar & Plate	NO	08-07411	**$783.00**
8000942	Bar & Plate	NO	08-07412	**$1,155.00**
8000950	Bar & Plate with Valve	YES	08-07413	**$2,233.74**
8000997	Bar & Plate with Valve	YES	08-07414	**$3,432.51**
8001201	7 Row Bar & Plate	YES	08-07415	**$536.00**
8001241	3 Hole 7" Oil Cooler	Yes	08-16189	**$2,945.00**
8001467	Bar & Plate With Valve	Yes	08-16190	**$2,999.00**
8001628	3 Hole 7" Oil Cooler	Yes	08-16191	**$2,945.00**
8001819	2 Hole 8" Oil Cooler	Yes	08-16192	**$2,945.00**
8002015	Remote Mount Oil Cooler	Yes	08-16193	**$3,498.00**
8002038	Remote Mount Oil Cooler	Yes	08-16194	**$5,875.00**
8002319	Remote Mount Oil Cooler	Yes	08-16195	**$1,665.00**
8002320	Remote Mount Oil Cooler	Yes	08-16196	**$1,665.00**
8002437	Remote Mount Oil Cooler	Yes	08-16197	**$2,835.00**

AERO CLASSICS "HE SERIES" AVIATION OIL COOLERS

Aero's HE Series (High Efficiency) FAA-PMA oil coolers are designed to be direct replacements for Stewart Warner (today known as Meggitt) oil coolers – most of which do not have FAA-PMA. Aero-Classics HE Series oil coolers are intended to be a competitively priced option for those whose aircraft came with a Stewart Warner oil cooler. The HE Series come with full FAA-PMA documentation, an industry leading 2YR/2,000HR warranty, and heat rejection capabilities that match or exceed the competition. Aero's HE Series oil coolers are approved for use on many Beech, Cessna, Grumman, Mooney, Robinson Helicopter, and other popular aircraft makes. Listed below is the SW part number and the corresponding Aero-Classics HE Series replacement part number.

SW Part No.	Aero Part No.	Description	Part No.	Price
10578R	8001535	4 Row 6" Long Core	08-07425	**$483.00**
10877A	8001588	6 Row 7" Long Core	08-07426	**$596.00**
10599R	8001599	8 Row 6" Long Core	08-07427	**$614.00**
8406R	8001602	6 Row 6" Long Core	08-07428	**$556.00**
10568R	8001640	5 Row 6" Long Core	08-07429	**$505.00**
10614R	8001643	14 Row 6" Long Core	08-07430	**$849.00**
10610R	8001646	10 Row 6" Long Core	08-07431	**$644.00**
10611R	8001649	11 Row 6" Long Core	08-07432	**$679.00**
10634R	8001652	12 Row 6" Long Core	08-07433	**$751.00**
8432R	8001689	8 Row Dual Pass 6" Long Core	08-07434	**$690.00**
8432S	8001694	8 Dual Pass 6" Long Core	08-07435	**$759.00**
10865B	8001701	16 Row 7" Long Core	08-07436	**$1,025.00**
10880A	8001713	16 Row Dual Pass 7" Long Core	08-07437	**$1,085.00**
10891A	8001718	14 Row Dual Pass 6" Long Core	08-07438	**$844.00**
10886A	8001723	16 Row 7" Long Core	08-07439	**$969.00**
8406R	8001733	6 Row Bar & Plate 8" Long Core	08-07440	**$554.00**

EP

OIL COOLERS

AERO CLASSIC CONTINENTAL OIL COOLERS

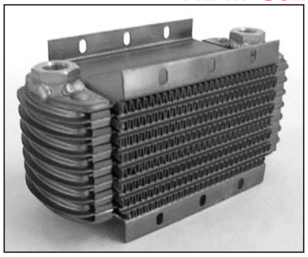
8000545 10" Non-Congealing Universal 7th Stud

Aero-Classic's engine mounted oil coolers for Continental powered aircraft offer high quality features such as a CNC machined base for reliable, leak-proof mounting. Aero's line of Continental front mounted oil coolers feature a hassle free design that accommodates both 7th stud and non-7th stud engine cases - eliminating the chance of getting the "wrong" oil cooler. The oil coolers on Continental engines often mount directly to the engine and do not require hoses. All FAA-PMA approved with supporting FAA 8130-3 documentation, and full two year warranty.

Model No.	TCM PN	Description	Spruce Part No.	Price
8000545	639171	10" Non-congealing Universal 7th Stud Front Mount	08-04961	**$762.00**
8000319	639151	11" Non-congealing Universal 7th Stud Front Mount	08-04963	**$759.00**
8000531	639152	11.5" Non-congealing Universal 7th Stud Front Mount	08-04965	**$765.00**
8000683	626189	12 Bolt Congealing Non 7th Stud Front Mount	08-04967	**$726.00**
8000687	652671	12 Bolt Congealing 7th Stud Front Mount	08-04968	**$757.00**
8000925	627392	8 Bolt Front Mount	08-07418	**$699.00**
8000440	654580	Rear Mount	08-07419	**$927.00**
8000464	646685	Rear Mount	08-07420	**$925.00**
8000934	646880	8 Bolt Rear Mount	08-07421	**$699.00**
8000953	654585	Rear Mount	08-07422	**$1,632.00**
8000960	654572	Rear Mount	08-07423	**$893.00**
8001213	655090	Rear Mount	08-07424	**$1,615.00**

Note: Some part numbers have been superseded
8000677 (our part # 08-04962) superseded by 8000545 (our part # 08-04961)
8000307 (our part # 08-04964) superseded by 8000319 (our part # 08-04963)
8000127 (our part # 08-04966) superseded by 8000531 (our part # 08-04965)

NDM OIL COOLERS



NDM is one of the world's largest volume manufacturers of FAA approved oil coolers. An approved supplier to both Lycoming and Continental, as well as many airframe manufacturers, NDM holds FAA/PMA's for most of these oil coolers. NDM oil coolers are manufactured utilizing the vacuum oven brazing process rather than the less costly Controlled Atmosphere Brazing (CAB) method used by others to save costs. Utilizing the vacuum oven process guarantees a high quality product and lower warranty returns. If you are not sure which NDM oil cooler is FAA Approved for your aircraft, please provide the aircraft model & serial number and we will determine the correct oil cooler for your application.

Part No.	NDM P/N	Stew.t Warner P/N	Price
08-00740	20002A	8406R	**$343.00**
08-00741	20003A	N/A	**$398.00**
08-00742	20004A	10599R	**$427.00**
08-00743	20005A	N/A	**$472.00**
08-00744	20006A	10611R	**$475.00**
08-00745	20007A	N/A	**$428.95**
08-00746	20008A	10614R	**$542.00**

AIRWOLF OIL CHILLER

The new Airwolf Oil Chiller is 20 aircraft quality aluminum fins that are precisely bent to mold around the outside of any standard oil filter. These fins total a whopping 600 sq/in of cooling area to suck the heat from your oil filter, thereby cooling your engine oil. The fins are gold anodized and quickly secured to the oil filter with two hose clamps. Easy on..easy off. Everything you need is in the kit. Lower your oil temperatures today with our "Poor Mans" oil cooler. P/N 08-07394 .... **$149.95**

OIL THERMOSTAT SYSTEM

Designed to regulate the oil temperature on engines like the Rotax and Jabiru. If you are flying time and time again and the engine temperature is only getting to say 85°C the water will remain in your oil as a contaminant and can go on to destroy your engine with corrosion problems. Additionally, warmup is achieved very quickly on even the coldest of days because the thermostat diverts the oil flow from the oil cooler. Made in the USA these special oil thermostat units are designed to quickly allow your engine to reach and maintain its optimum operating temperature even on the coldest of days. CNC machined from 6061-T6 the unit is anodised with the type 2 surface finish to protect the thermostat long-term against corrosion. There are a number of benefits in using an oil thermostat in your aircraft which include fuel savings resulting from quick warmup times and engine operation at optimum oil temperature which also increases engine life because the engine is being operated at the correct oil temperature. Does not include Hardware. P/N 08-07212 .... **$146.95**

ROTAX 912 13MM OIL COOLER HOSE

912 Oil Cooler Hose 13mm high heat hose for 912-914 oil coolers. Sold by the foot.
P/N 15-06907 .... **$7.50**

OIL COOLER DUCT SYSTEM

This economical duct system provides the aircraft builder with a simple way to route cooling air to Stewart Warner style oil coolers. Manufactured from .040 aluminum, this kit was designed for use on RV series aircraft but is ideal for virtually any homebuilt using a firewall mounted oil cooler. Kit includes baffle duct, oil cooler duct, hardware, & installation instructions. P/N 08-05000 .... **$54.95 ea**

ALUMINUM SIDE LOUVERS

These side louvers let hot air out of your engine compartment - or, if they are installed with the louvered openings facing forward, to bring cool air into the engine compartment, enhancing performance and service life of the engine and under-hood components. Helicopter owners often mount these over their oil cooler to let cool air in and help reduce operating temperatures. Complete with do-it-yourself instructions and hardware. Rest a set on your plane, hood or fender- see just how good they look! (2) 2-11/16" x 12-1/4"

Semi-Gloss Black .... P/N 05-04969 .... **$99.00**
Aluminum .... P/N 09-04968 .... **$89.00**

ALUMINUM COOLING LOUVERS

These aluminum cooling louvers are custom made and designed to improve the cooling of your engine compartment on your experimental aircraft. They are simple to install, and will dramatically lower your CHT temps, as well as your oil temperature.

The standard size of the aluminum plate is 12" long and 5" wide, and the outside flange can be trimmed to fit your application. There are a total of 9 louver slots which aid in cooling. P/N 08-07625 .... **$17.85**

OIL DOOR HINGE

The hidden hinge has a uniquely shaped arm that allows the hinge to be mounted completely out of view to the underside of the cowling. The center hinge eye is removed for the custom made spring that loads the hinge to be full open when unlatched. If your oil door unlatched it will be full open, eliminating accidentally taking off with the oil door unlatched. The hinge is aircraft quality extruded MS20001-4 hinge with a 3/32" steel hinge pin. One end of the hinge pin is flattened. When installed and closed the hinge pin is gripped tightly by the force of the spring.

Oil Door Hinge .... P/N 12-04708 .... **$37.90**
Replacement Spring .... P/N 12-04709 .... **$2.95**

X-SERIES OIL COOLERS BY AIRFLOW SYSTEM

The first aircraft oil cooler design in 50 years. Computer modeling and flight testing have been used to develop coolers that deliver significantly lower oil temps with no increase in oil cooler size or oil pressure drop. Designed as a direct replacement for popular oil coolers used in experimental aircraft, the X- SERIES oil coolers are built to Airflow Systems specifications and certified aircraft oil cooler standards. Flight testing on the popular RV series of aircraft has shown oil temperature drops of 10 -15 degrees F for coolers of the same size in the same location. Not FAA approved.

Model	Size	Engine Application	Notes	Part No.	Price
2002X	7 Rows	Continental O-200, Lycoming O-235, Lycoming O-320, Lycoming O-360, Lycoming IO-360, Corvair, Subaru, VW	Max 180 HP. No piston squirters or cold air induction	08-06153	**$411.00**
2004X	10 Rows	Continental O-200, Lycoming O-235, Lycoming O-320, Lycoming O-360, Lycoming IO-360, Corvair, Subaru, VW	Max 180 HP. No piston squirters or cold air induction	08-13963	**$489.00**
2006X	13 Rows	Lycoming O-360K, Lycoming IO-360, Lycoming IO-540	Go up one size for piston squirters, cold air induction, aerobatic and/or float plane applications	08-06154	**$562.00**
2007X	15 Rows	Lycoming O-360K, Lycoming IO-360, Lycoming IO-540	Go up one size for piston squirters, cold air induction, aerobatic and/or float plane applications	08-13964	**$569.00**
2008X	17 Rows	Lycoming O-360K, Lycoming IO-360, Lycoming IO-540	Go up one size for piston squirters, cold air induction, aerobatic and/or float plane applications	08-06155	**$620.00**

AIRFLOW SYSTEMS OIL COOLER DUCTS

P/N 08-07472

Super lightweight and strong hand laid fiberglass ducts designed using Computational Fluid Dynamics (CFD) software and flight testing to provide the best air pressure distribution over the face of the oil cooler. Mounting hardware and installation instructions provided. The new versions will have a gray "in mold" primer coating on them. The advantage to the customer is that there are no pin holes in the fiberglass and the almost-ready-to-paint finish.

Airflow Systems Part No.	Oil Cooler Application	Part No.	Price
ASOCP-O- 13 (0°)	13 ROW, 20006A, 2006X, 10611R, 08-00644	08-07472	**$175.75**
ASOCP-45-13 (45°)	13 ROW, 20006A, 2006X, 10611R, 08-00644	08-07473	**$168.75**
ASOCP-90-13 (90°)	13 ROW, 20006A, 2006X, 10611R, 08-00644	08-07474	**$149.75**
ASOCP-45-17 (45°)	17 ROW, 200008A, 2008X, 10614R, 08-00644	08-07476	**$163.75**
ASOCP-90-17 (90°)	17 ROW, 200008A, 2008X, 10614R, 08-00644	08-07477	**$153.75**

AIRFLOW SYSTEMS OIL COOLER INSTALLATION KITS

Airflow Systems oil cooler brackets and mounting hardware kits offer the homebuilder a quick and easy solution for firewall mounted oil cooler installations. A variety of mounting angles cover most applications at a cost that is often little more than the cost of material for a builder made bracket. The generous radiuses resist cracking. Delivered without holes but including an oil cooler mounting hole template the brackets may be tailored to individual installations.

Description	Part No	Price
Asik-01 Oil Cooler Installation Kit Bolts & Spacers	08-13968	**$86.75**
Asik-02 Oil Cooler Install Kit 45* Bracket	08-13969	**$97.85**
Asik-03 Oil Cooler Install Kit 90* Bracket	08-13970	**$119.75**

THE A.S.A. OIL SEPARATORS

"THE ASA OIL SEPARATOR" Is a solution to the oil consumption and collection of oil on the belly of your aircraft. The breathers kick out oil mist that collects on the belly that in turn grabs all the dust and dirt. For years we have been making this type of product used in automotive racing engines so the leap to a light weight aircraft unit was a small one. After many hours on the dynamometer many changes and hours of flight testing the effort was well worth it. "ASA Oil Separator" that in our tests out performs most of the competition at a fraction of the price.

Description	Part No	Price
4 Cylinder Polished Mirror	05-12369	**$169.00**
4 Cylinder White Powder	05-12472	**$179.85**
6 Cylinder Polished Mirror	05-12473	**$179.85**
6 Cylinder White Powder	05-12474	**$179.85**

OIL SEPARATOR INSTALL KITS

Included are three feet of high quality silicone hose, four quality hose clamps, one steel braid -4 AN Teflon oil return hose, one -4 AN X 1/8" NPT 90 Deg. Fitting and one 1/8" X 3/8" NPT reducer bushing that fits the oil return in the accessory case on most Lycoming engines. Also included is a new accessory case breather fitting that is more IO-540 friendly when installing on the six cyl engines. Full installation and maintenance instructions will be included as well.

Description	Part No	Price
4 Cylinder Install Kit	05-12370	**$52.00**
6 Cylinder Install Kit	05-12482	**$67.50**

E-Z COOL FLAP

This revolutionary product, the "EZ Cool Flap" is a long awaited solution to this sometimes challenging task of climbing out without high CHTs. This revolutionary, retrofit electric cowl flap product will definitely help calm the fears of many RV owners and builders of these great aircraft. Our effort turned out to be far greater in monetary and time investment than we initially planned but, all good things take time. After a considerable investment in design, engineering and testing many different configurations, learning and improving along the way. We now offer our product as the most logical, simple and easily installed device to address these temperature concerns. This product is constructed of the finest aircraft alloys and workmanship available and is far superior to any and all other solutions available at any price. This product only weighs a few ounces, is extremely easy to use, and offers unparalleled protection for your aircraft engine. P/N 05-12374...............**$369.00**

CRANKCASE VACUUM KIT

Included are the 321 stainless steel saddle mount fitting, mounting clamps, vacuum valve assembly and a complete safety by-pass with a .25 psi internal pop-off valve. This will put the finishing touch on your oil separator installation or breather system. Your engine will virtually stop all leaks and seeping when in service, due to the vacuum inside. This system stops any possibility of freezing up the breather tube in cold climates, as no moisture laden air is present in the engine and none can be inhaled through the overboard draft tube. The rarefied air and low pressure in the crankcase has a very dramatic effect on windage and oil in suspension, thus freeing up a little power and adding some efficiency. This will also greatly lower the boiling point of any moisture that finds its way into the engine. Any oil temperature over 160 degrees will get rid of all the moisture in turn the acids. Any lowering of pressure on the underside of the pistons is exactly the same as adding cylinder pressure on top. This results in a very noticeable power increase (on the average 180 HP engine, 3 to 5 HP). We hear this over and over with reports of higher static RPM, better climb and acceleration, lower fuel burn etc. The belly of your airplane will stay immaculately clean as anything that exits the separator or breather line will be consumed in the exhaust stream.

P/N 05-12429...............**$109.00**

CRANKCASE VACUUM VALVE

This reliable crankcase vacuum valve and 321 stainless steel fitting will put the finishing touch on your oil separator installation. This special valve in conjunction with our installation kit, complements the main product "THE ASA OIL SEPARATOR". Full installation and maintenance instructions will be included.

P/N 05-12371...............**$131.75**

MAGNETIC SUPER PLUG

This is the most powerful plug available and was designed specifically for GA aircraft use. This is about the least expensive thing you can add to your aircraft that will extend engine life and prevent damage to your engine. The plug end is very high quality with a special rolled thread to prevent leaks, is cad plated to prevent corrosion and drilled for safety wire. The rolled thread size is 1/2" npt and this fits all Lycoming, Continental, Franklin and many other aircraft engines. The extremely powerful high temperature, Alnico magnet is pressed and locked into the plug permanently and will outlast your engine. This powerful device extends into the oil and removes all ferrous material that is suspended in and circulating with your oil causing wear.

P/N 05-12373................**$22.50**

OIL ANALYSIS KITS - ENGINE TREATMENT

AVIATION OIL ANALYSIS (AOA) KIT

A cost-effective service to enhance your aviation maintenance practices and provide confidence in the health of your engine. Aviation Oil Analysis (AOA) by ALS Tribology Division brings you a state-of-the-art oil analysis program designed specifically for aircraft owners. Oil analysis is an early warning system that reduces downtime, lowers maintenance costs, and helps you spot troubling issues before they become serious problems. AOA 'basic' kits can be ordered with or without return postage and include standard elemental analysis to detect evidence of engine component wear. A small vial, mailing bag, and information form are furnished with the order. Upon receipt at the laboratory in Phoenix, AZ, the oil sample is analyzed and a full report, including statistical analysis and interpretation, is forwarded within 24 hours and posted for viewing online. Note: insufficient postage will cause a delay in receipt of your sample, please consult your local post office or contact the laboratory (1-800-445-7930) regarding current postage rates.

Description	Part No.	Price
Basic Kit for Piston Engines (no return postage)	08-00436	$12.95
Basic Kit for Piston Engines (with return postage)	08-16223	$19.50
Basic Kit for Turbine Engines (no return postage)	08-00435	$13.85
Basic Kit for Turbine Engines (with return postage)	08-16224	$19.95
Advanced Kit for all Engines (with return postage)	08-16225	$24.65
Comprehensive Kit for all Engines (with return postage)	08-16226	$89.75

LAB ONE AVIATION (LOA) OIL ANALYSIS KIT

This kit includes a sample bottle, shipping container and the paperwork. Upon receipt, your sample will be processed within 24 hours with the results emailed or mailed from Lab One in Phoenix, AZ. Can be used on any reciprocating or turbine engine and helicopter transmissions and tail rotors P/N 08-01222 .... **$12.95**

AVIATION LABS OIL FILTER ANALYSIS

Analysis of the oil filter only. The oil filter is rinsed and the debris removed is analyzed. The exact alloys present are determined by Scanning Electron Microscopy and EDXRF. The alloys are reported by AMS number. Amount, type, form and condition of particles are reported. Alloy spectra and metal maps for most aircraft engines. Filter analysis is a critical part of all preventative maintenance programs. Aviation Laboratories has been a leader in the development of filter analysis programs for aircraft engines since 1985. Analysis completed in 24 hours. pre-purchase inspection. P/N 08-10692........... **$64.75**

OTHER OIL ANALYSIS KITS

Description	Part No.	Price
Aviation Labs APU Oil Analysis	08-10693	$79.95
Aviation Labs CF34 Oil Filter Analysis	08-10694	$86.75
PW-MOP-NO PW100 Oil Filter Analysis	08-10695	$86.75
PW-RGB-NO PW100 Oil Filter Analysis	08-10696	$79.95
Aviation Labs PW305 Oil Filter Analysis	08-10697	$79.95
Aviation Labs FJ44-33 Oil Filter Analysis	08-10698	$204.95
Aviation Labs Chip Flakes Analysis	08-10699	$129.95
Aviation Labs AE3007 Oil Filter Analysis	08-10700	$79.95
Aviation Labs GA001-OF-PTG Oil Filter Analysis	08-13834	$199.75
Aviation Labs GA001-OFP Oil Filter Analysis	08-13835	$170.75

AVBLEND LUBRICANT

An oil supplement for all piston engine-powered aircraft owners and operators worldwide. Providing critical lubrication at start-up, AvBlend helps prevent accumulation of combustion chamber areas. Wear is reduced, engines stay cleaner and combustion chambers stay properly sealed. FAA approved. 4-cylinder engines require 1 can at each oil change, and 6 cylinder engines require 2 cans.

12oz. can ....P/N 08-05470 ....**$14.50**
1Case (24 cans) ....P/N 08-05470-1 ......**$319.00**

LYCOMING OIL ADDITIVE

Approved oil additive LW-16702 that contains an anti-scuffing agent and can dramatically reduce engine wear. Applicable to all Avco Lycoming piston aircraft engines, and factory recommends use at every oil change or every 50 hours, whichever occurs first. For 6-8 qt. sump, use one 6 oz. can, for 12-15 qt. sump, use (2) 6 oz. cans, for 17-19 qt. sump, use (3) 6 oz. cans, for 23 qt. sump, use (4) 6 oz. cans....P/N 08-05600.............. **$41.60**

CAMGUARD OIL ADDITIVE

Designed to dramatically improve the performance of all mineral based , semi-synthetic and fully synthetic motor oils in the areas of corrosion protection, wear reduction, and seal protection. Designed to make regular engine oil what it needs to protect and lubricate any engine. A synergistic blend of advanced oil additives from all over the world, designed to reduce wear, curb deposit formation and more importantly protect engines against rust and corrosion. It contains multiple corrosion inhibitors for both ferrous and non-ferrous metals. A combination of ashless anti-wear compounds, anti-oxidants designed to reduce carbon deposits and special seal conditioners to prevent oil weeping. Camguard is FAA accepted and approved for use in piston engine aircraft oils meeting SAE-1899 standards.

1 pint... P/N 08-07096............**$22.95**
4 pints... P/N 08-07097............**$91.00**
Case of 12 pints.. P/N 08-07097-1........**$245.95**
Gallon.. P/N 08-14636..........**$189.95**
Auto oil additive 8 oz.bottles..................... P/N 08-12126.............**$14.95**
Auto oil additive Case of 4......................... P/N 08-12126-1........**$325.00**
Combo Pkg. - 4 Bottles Aviation & 1 Bottle Auto
P/N 08-07096-C.........**$99.65**
Marine oil additive 8 oz............................. P/N 08-01217-1..........**$14.95**
Marine oil additive Case of 4..................... P/N 08-12127..........**$358.80**
Camguard Small Engine Supplement(pint) P/N 08-07402............**$17.95**

MOBIL AGL SYNTHETIC AVIATION GEAR LUBRICANT

Mobil
MOBIL AGL
SYNTHETIC AVIATION GEAR LUBRICANT

Mobil AGL Synthetic Aviation Gear Lubricant offers measurably better wear protection for transmissions operating at high temperatures than Type I (MIL-L-7808) and Type II (MIL-L-23699) turbine oils, as well as wear resistance that is especially beneficial to military and other helicopters operating under unusual stresses. Mobil AGL is formulated with synthesized hydrocarbon-based fluids. The combination of a naturally high viscosity index and a unique proprietary additive system help enable the gear lubricant to provide outstanding performance in extreme service applications at high temperatures, well beyond the capabilities of mineral oils. Note: ExxonMobil recommends Mobil AGL for use in helicopter transmissions only. Before using Mobil AGL, operators should confirm the OEM's approved transmission lubricants. Size: 5 Gallon.
P/N 08-07406..............................**$418.00**

MICROLON AIRCRAFT ENGINE TREATMENT

FLAMMABLE

One-time metal treatment that virtually eliminates friction in all internal combustion engines which improves performance (horsepower), reduces wear, and extends engine life. Also decreases fuel consumption, reduces oil consumption, and lowers operating temperatures. Impregnates the engines bearing surfaces, forming a dry film lubricant that lasts no matter how many times the oil is changed. Continental A-65, C-85, and C-90 engines take the Half Kit. Most Lycoming and Continental engines used in light aircraft take the Single Kit. Turbocharged and Radial engines take from 2 to 6 Single Kits. Call for details if you have any questions on the quantity of Microlon needed for your application.

Microlon CL-100 Aircraft Kit (Single)...........P/N 09-35805........**$119.95**
Microlon CL-100 Aircraft Kit (Half) ....P/N 09-35810..........**$75.50**

SHELL WATER DETECTOR

Water can occur in jet fuel in three forms, dissolved (chemically in solution in the jet fuel), settled (as in free water at the bottom of the tank), or as finely dispersed undissolved water held in suspension. The Shell Water Detector is designed to detect undissolved water; it has been proven reliably for 30 years. This is water that a filter separator can remove, and is usually invisible to the eye in quantities below 40-60 ppm. ....P/N 08-13897...............**$183.75**

EP

AEROSHELL AVIATION OILS

AEROSHELL AVIATION OIL 15W-50 MULTIGRADE

Aeroshell Oil W 15 W 50 is a premium semi-synthetic multigrade ashless dispersant oil specifically developed for aviation piston engines. AeroShell Oil W 15 W 50 is a special blend of a high quality mineral oil and synthetic hydrocarbons with an advanced additive package..

Single Quart .... P/N 08-05450 ....**$7.75**
Case of 12 .... P/N 08-05451 ....**$93.00**
55 Gallon Drum .... P/N 08-15636 ...**$1,598.00**

AEROSHELL AVIATION OIL W100 SAE50

Aeroshell W100 is an ashless, SAE 50 dispersant oil that provides excellent service in all four cycle aircraft piston engines. AeroShell Oils W80, W100 and W120 are produced to meet fully the SAE specification J-1899 (Grades SAE 30, 40, 50 and 60 respectively). Furthermore, they all have military qualification approval and are listed on the Qualified Products List (QPL) issued by the US Navy.

Single Quart .... P/N 08-05400 ....**$6.75**
Case of 12 .... P/N 08-05401 ....**$79.00**
55 Gallon Drum .... P/N 08-15645 ...**$1,410.00**

AEROSHELL AVIATION OIL W100 PLUS

Single Grade Ashless Dispersant Engine Oils: .AeroShell Oil W100 Plus and W 80 Plus are new single grade oils that combine proven AeroShell ashless dispersant technology with advanced antiwear additives. They are the oils for pilots who want a single grade that delivers extra protection and performance. AeroShell Oil W 100 Plus and W 80 Plus brings together the best qualities of two of the world's best-selling four cycle aviation oils.

Single Quart .... P/N 08-05485 ....**$7.50**
Case of 12................................. P/N 08-05486 ....**$88.00**
55 Gallon Drum......................... P/N 08-15647 ...**$1,547.00**

AEROSHELL AVIATION OIL 100 SAE 50 MINERAL OIL

AeroShell Oil 100 is a straight mineral oil blended from selected high viscosity index base oil. This oil does not contain any additives except for very small amounts of pour point depressant (which aids to improve fluidity at very low temperatures) and an anti-oxidant. AeroShell Oil 100 is approved for all aviation piston engines of civil aircraft when the use of an oil not containing a dispersant additive is required; however, it should also be used during the break-in of a new aviation piston engine or those recently overhauled.

Single Quart.. P/N 08-05410 ....**$6.85**
Case of 12 .... P/N 08-05411 ....**$78.75**
55 Gallon Drum .... P/N 08-15642 ...**$1,289.00**

AEROSHELL AVIATION OIL W80 PLUS

Shell Oil W80 Plus introduces the anti-wear and anti-corrosion additives of AeroShell W100 Plus engine oil into a lighter, single-grade oil for use in colder climates. The anti-wear additive reduces wear on start-up by forming a microscopic layer on the engine's moving parts to prevent metal-to-metal contract when there is little oil present. Combined with a corrosion inhibitor, it is designed for pilots who fly either in cooler weather or less frequently.

Single Quart................................ P/N 08-05920 ....**$7.25**
Case of 12 .... P/N 08-05919 ....**$88.75**
55 Gallon Drum........................... P/N 08-15646 ...**$1,598.00**

AEROSHELL AVIATION OIL 80 SAE 40 MINERAL OIL

AeroShell Oil 80 straight mineral oils blended from selected high viscosity index base oils. These oils do not contain any additives except for very small amounts of pour point depressant (which aids to improve fluidity at very low temperatures) and an anti-oxidant. AeroShell Oil 80 approved for all aviation piston engines of civil aircraft when the use of an oil not containing a dispersant additive is required; should also be used during the break-in of a new aviation piston engine.

Single Quart.. P/N 08-07507-1 ....**$6.50**
Case of 12 .... P/N 08-07507 ....**$76.85**
55 Gallon Drum .... P/N 08-15641 ...**$1,293.00**

AEROSHELL AVIATION OIL W80

An ashless dispersant oil specifically developed for aviation piston engines. No general rule exists for every engine type when choosing the correct grade of oil; however, based on the average ambient outside temperature at engine start-up the most common grades are SAE 40, SAE 50 and SAE 60, which equates to AeroShell Oil W80, W100 and W120 respectively.

Single Quart................................ P/N 08-00884 ....**$6.75**
Case of 12 .... P/N 08-01223 ....**$82.75**
55 Gallon Drum........................... P/N 08-15644 ...**$1,418.00**

AEROSHELL AVIATION OIL W120 SAE 60

AeroShell Oil W120 is an ashless dispersant oil specifically developed for aviation piston engines. It combines non-metallic additives with selected high viscosity index base oils to give exceptional stability, dispersancy and anti-foaming performance. No general rule exists for every engine type when choosing the correct grade of oil; however, based on the average ambient outside temperature at engine start-up the most common grades are SAE 40, SAE 50 and SAE 60, which equates to AeroShell Oil W80, W100 and W120 respectively.

5 Litre Container(1.32 gallons) .... P/N 08-00344-1 ....**$38.58**
Case of 3 .... P/N 08-00344 **$115.75**55 Gallon Drum.. P/N 08-00344-55 ....**$1,370.00**

AEROSHELL AVIATION OIL 65

AeroShell Oil 65 is straight mineral oils blended from selected high viscosity index base oils. These oils do not contain any additives except for very small amounts of pour point depressant (which aids to improve fluidity at very low temperatures) and an anti-oxidant. AeroShell Oils 65 is approved for all aviation piston engines of civil aircraft when the use of an oil not containing a dispersant additive is required; however, they should also be used during the break-in of a new aviation piston engine or those recently overhauled.

Quart......................P/N 08-15640 ....**$8.00**
Case of 12 ....P/N 08-15640-1 ....**$93.00**

AEROSHELL TURBINE 500

A 5 centistoke synthetic hindered ester oil incorporating additives to improve thermal and oxidational stability and also metal passivation. AeroShell Turbine Oil 500 was developed essentially to meet the requirements of Pratt & Whitney 521 B Type II and MIL -L-23699 specifications and is entirely suitable for all civil and military engines requiring this class of lubricant. The outstanding high temperature and oxidation stability of AeroShell Turbine Oil 500 is due to the natural properties of the synthetic hindered ester base fluids used.

Single Quart.. P/N 08-00581 ....**$13.25**
Case of 12 .... P/N 08-00582 ......**$314.00**

AEROSHELL TURBINE OIL 555

An advanced 5 mm2/s synthetic hindered ester oil incorporating a finely balanced blend of additives to improve thermal and oxidation stability. Specifically developed to meet the high temperatures and load carrying requirements of SST engines and the DEF STAN 91-100 (formerly DERD 2497) and XAS-2354 specifications. AeroShell Turbine Oil 555 was also designed to give enhanced performance in current engines. More recently with the need to transmit more power and higher loads through helicopter transmission and gearbox systems (many helicopters use a synthetic turbine engine oil in the transmission/gearbox system) it has become apparent that the use of a very good load carrying oil, such as AeroShell Turbine Oil 555is necessary.

Single Quart.. P/N 08-00757 ....**$13.25**
Case of 12 .... P/N 08-00758 ......**$339.00**

AEROSHELL TURBINE OIL 560

A third generation 'low coking' 5 centistoke synthetic hindered ester lubricating oil. It incorporates advanced additive technology and a fine balance of additives to resist the high temperatures generated by turbine engines. Also improves the thermal and oxidational stability. The outstanding high temperature and oxidation stability of AeroShell Turbine Oil 560 is due to the natural properties of the synthetic hindered ester base fluid used. These fluids are clean running in that they tend to dissolve varnish and sludge rather than leave deposits on working surfaces. AeroShell Turbine Oil 560 was developed essentially to meet the high temperature requirements of both modern engines and future models.

Single Quart.. P/N 08-00759 ....**$14.50**
Case of 12 .... P/N 08-00760 ......**$335.00**

AEROSHELL TURBINE OIL 308

AeroShell Turbine Oil 308 is a 3 mm2 /s synthetic ester oil incorporating additives to improve resistance to oxidation and corrosion and to minimize wear. AeroShell Turbine Oil 308 was developed specifically for use in particular models of aircraft turbo-prop and turbo-jet engines for which a MIL-PRF-7808 (formerly MIL-L-7808) oil is required. AeroShell Turbine Oil 308 contains a synthetic ester oil and should not be used in contact with incompatible seal materials and it also affects some paints and plastics.

Quart......................P/N 08-14702 ....**$14.25**
Case of 12 ....P/N 08-14702-1 ......**$346.00**

EP

AEROSHELL TURBINE OIL 390

Helps to improve auxiliary power unit (APU) starting reliability, particularly coldsoak starting. Products such as ASTO 390 are commonly used in the APUs of four-engine intercontinental aircraft, but are now being considered for use in twin-engine aircraft.

Quart......................P/N 08-14703 ....**$14.50**
Case of 24 ....P/N 08-14703-1 ......**$348.00**

AEROSHELL 2 TURBINE OIL

AeroShell Turbine Oil 2 is a 2 mm2/s mineral turbine oil blended from mineral base stocks to which a pour-point depressant and an anti-oxidant have been added. Widely used for inhibiting fuel systems and fuel system components during storage. AeroShell Oil 2 is an analogue to the Russian Grade MK-8 and can therefore be used in turbine engines which require the use of MK-8.

55 Gallon Drum .....P/N 08-14705 ......**$1,576.00**

AEROSHELL 3 TURBINE OIL

AeroShell Turbine Oil 3 is a 3 mm 2 /s mineral turbine oil blended from mineral base stocks to which a anti-corrosion additive has been added. AeroShell Turbine Oil 3 was developed for early pure jet engines and is still approved for some versions of these engines plus the Turbomeca Astazou, Artouste, Turmo, Bastan and Marbore engines.

55 Gallon Drum .....P/N 08-14704 ......**$1,682.00**

AEROSHELL FLUID 3

AeroShell Fluid 3 is a general purpose mineral lubricating oil recommended for general lubrication of aircraft parts that require a light oil with good low temperature characteristics and a low freezing point. It is inhibited against oxidation and corrosion. AeroShell Fluid 3 is a relatively low viscosity product with good resistance to evaporation.

Gallon ....P/N 08-14710 ....**$36.50**
Case of ....P/N 08-14710-1 ......**$232.00**

EP

AEROSHELL TURBINE OIL 750

AeroShell Turbine Oil 750 is a 7½ mm2/s synthetic mixed ester oil containing a thickener and additives which provide excellent load carrying, thermal and oxidation stability.

Quart......................P/N 08-15765 ....**$18.00**
Case of 24 ....P/N 08-15765-1 ......**$451.00**

AEROSHELL COMPOUND 7

AeroShell Compound 07 is a de-icing fluid composed of ethylene glycol, isopropyl alcohol and distilled water. AeroShell Compound 07 is also recommended for removing hoar frost and light snow/ice from parked aircraft. AeroShell Compound 07 can be sprayed undiluted or mixed with up to 50% volume of water, depending upon the severity of the icing conditions, the efficiency of the spraying technique and whether it is applied hot or cold.

5 Gallon ....P/N 08-14712 ....**$168.75**

AEROSHELL 2XN PRESERVATIVE FLUID

AeroShell Fluid 2XN is a corrosion preservative concentrate for protecting infrequently used engines. It uses an ashless anti-corrosion additive package and highly refined mineral base oils to protect internal engine surfaces from the Effects of humidity. It is also designed to neutralize the acidic by-products of oil oxidation and combustion. AeroShell Fluid 2XN can be used neat to long-term storage, but it is typically mixed with one part AeroShell Fluid 2XN to three parts fresh AeroShell Oil 100 to create an inhibited oil. It can also be sprayed undiluted on piston-engine exhaust ports, Rocker arms and accessories to provide additional protection.

5 Gallon ....P/N 08-14701 ....**$359.00**

AEROSHELL DIESEL ULTRA

AeroShell Oil Diesel Ultra is a fully synthetic, multigrade engine oil designed for use in the new generation of compression ignition (Diesel) Aviation Piston Engines. The formulation has been selected to be suitable in piston engines fueled by Jet A or Jet A-1 and is designed for use in the latest highly rated turbocharged diesel engines under all operation conditions. AeroShell Oil Diesel Ultra MUST NOT be used in spark ignition, or Avgas powered aircraft engines.

5W-30 Liter ....P/N 08-10754 ....**$14.00**
5W-30 Case of 12 ....P/N 08-10754-1 ....**$164.75**

AEROSHELL OIL SPORT PLUS 4

AeroShell Oil Sport Plus 4 is ideal; as it is extremely resistant to the immense sheer forces that occur in areas of high-pressure contact such as high-speed gearboxes, valve trains, bearings, pistons and liners. This is where the blend of base oil and additives is most crucial. AeroShell Oil Sport Plus 4 is made up of a blend incorporating synthetic technology and high performance additives to provide long lasting protection. So when you change your oil to new AeroShell Oil Sport Plus 4, you are not only removing dirt from your engine, you are also replenishing the additives used to protect your engine during normal operation. ***DO NOT use AeroShell Oil Sport Plus 4 in engines that are designed to use Ashless Dispersant aviation piston engine oils such as AeroShell W Oils. This includes air cooled Teledyne Continental Motors, Textron Lycoming and Jabiru engines.***

4 Cycle Sport Plus 4 Oil (Case of 12)............ P/N 08-07047 ......**$126.95**

EXXON ELITE AVIATION OIL

Exxon Elite™ 20W-50 is a multigrade oil with the flexibility to lubricate effectively over a wider range of temperatures than monograde oils. Compared to a monograde oil, a multigrade oil provides better cold-start protection and a stronger lubricant film at typical operating temperatures. FAA approved fluid for Alternative Method of compliance w/AD-80-04-03-R2, paragraph b.1

Quart....... P/N 08-00392 ...**$10.85** Case...... P/N 08-00432 ... **$109.00**

MOBIL JET OIL II (AVIATION)

Mobil Jet Oil II helps keep oil systems clean. That can mean less maintenance more flying and greater revenue. Mobil Jet Oil II has a history of helping to keep aircraft where they belong - in the air generating revenue. Today, about 160 major airline use Mobil Jet Oil II in more than 11,000 gas turbine engines.

Quart .... P/N 08-00763 ....**$17.50**
Mobil Jet II Case... P/N 08-00764 .....**$399.00**
55 Gallon Drum .... P/N 08-15960 ..**$3,249.00**

MOBIL JET OIL 254

Mobil Jet Oil 254 is a third-generation synthetic lubricant made from a specially prepared hindered-ester base stock fortified with a special chemical additive package. The result is a product having superior thermal and oxidation stability that resists deterioration and deposit formation, while maintaining the physical characteristics required by builder and military specifications.

QT.......... P/N 08-07374-1 **$18.75** Case .... P/N 08-07374 .... **$445.00**

EXXON MOBIL HYJET IV-A PLUS

Exxon HyJet IV-A plus is a fire-resistant phosphate ester hydraulic fluid designed for use in commercial aircraft. It is the best-performing Type IV fluid and approaches to a great extent many of the performance capabilities of Type V fluids, including high temperature stability, long fluid life, low density, and rust protection.

It is superior to all other Type IV fluids in these respects. Exxon HyJet IV-A plus meets the specifications of all major aircraft manufacturers and SAE AS1241.

1 Quart....................... P/N 08-15974-1 ....**$25.75**
Case of 24 Quarts...... P/N 08-5974..............**$617.00**
1 Gallon .... P/N 08-15957-1 ....**$102.95**
Case of 6 Gallons ...... P/N 08-15957............**$607.00**
55 Gallon Drum.......... P/N 08-15974-55 ...**$4,954.00**

MOBIL JET OIL 387

Proactively developed to respond to the evolving needs of customers and the industry, Mobil Jet Oil 387 is the most advanced Mobil turbine oil ever developed. Specifically formulated to deliver unsurpassed engine performance, it strikes the perfect balance, providing optimal engine performance and advanced protection for engines and components. It will meet the performance requirements of both current and future, advanced gas turbine engines used in commercial and military service. Mobil Jet Oil 387 is approved for use in an array of engine models and components.

Quart.......................... P/N 08-16230-1 ....**$22.55**
Case of 24 Qt............ P/N 08-16230............**$545.00**
55 Gal. Drum .... P/N 08-16231.........**$4,955.00**

POLY-FIBER ESO ENGINE STORAGE OIL

A fine lubricating and preservative oil used to prevent corrosion in internal combustion engines during extended storage. MIL-1-21260.

Quart........P/N 09-42450 .... **$24.00**
Gallon ......P/N 09-42455 .... **$89.00**

Prices Subject to Change Without Notice

EASTMAN TURBO OIL 2380

Turbo Oil 2380 is recommended for the lubrication of most aircraft gas turbines and accessories. It is also recommended for the lubrication of aero-derived gas turbines in industrial power generation, offshore and marine applications.

Single Quart .... P/N 08-00761 ....**$18.50**
Case of 24................ P/N 08-00762 ....**$411.00**
5 Gal .... P/N 08-13061 ....**$398.00**
55 Gal. Drum............ P/N 08-13753 .....**$3,416.00**

EASTMAN TURBINE OIL 2389

Turbo Oil 2389 is a 3 cSt synthetic lubricant. Turbo Oil 2389 is approved against US military specification MIL-PRF-7808L grade 3 and incorporates a level of technology from Type II (5 cSt) commercial turbine lubricants.

Single Quart .... P/N 08-13757-1 ....**$19.95**
Case of 12 .... P/N 08-13757.............**$438.00**
55 Gal. Drum .... P/N 08-13757-55 .....**$3,670.00**

EASTMAN TURBINE OIL 25

Turbo Oil 25 is a 5 cSt high load carrying synthetic lubricant which was developed to meet the requirements of supersonic aircraft engines. Approved against US military specification DOD-L-85734(AS), and UK military specification DEF STAN 91-100/1 (DERD 2497). Designed to meet the severe requirements of helicopters.

Single Quart .. P/N 08-13758-1..................**$20.50**
Case of 12..... P/N 08-13758....................**$480.00**
55 Gal. Drum. P/N 08-13758-55............**$3,862.00**

EASTMAN TURBINE OIL 2197

Eastman Turbo Oil 2197 is a latest generation 5 cSt High Thermal Stability (HTS) synthetic lubricant that is approved against US military specification MIL-PRF-23699 HTS. It is formulated to provide exceptional high temperature cleanliness in vapor mist and liquid film areas, as well as outstanding oxidative, thermal and hydrolytic stability. It provides exceptional performance in the most demanding existing turbines as well as new generation turbines just entering service. Eastman Turbo Oil 2197 is the newest turbo oil, designed to be a "fleet-wide" oil especially suitable for hot aircraft and aeroderived engines.

Single Quart...................................... P/N 08-12341 ....**$18.75**
Case of 12 .... P/N 08-12341-1................**$443.00**
5 Gallon Pail .... P/N 08-13959...................**$379.00**

EASTMAN TURBINE OIL 157 55 GALLON DRUM

Eastman™ HALO 157 is a clear amber colored fluid with a faintly aromatic odor reminiscent of turbine engine oils. It is based on selected polyol esters, the inherent characteristics of which are enhanced by additives. also fully compatible and miscible with other oils approved to specifications, MIL-PRF-23699 and MIL-PRF-7808. Multiple testing has been completed in bearing and gearbox rigs and flight evaluations culminating in the NATO standard (AIR STANDARD ACS 4035) for a 9 cSt advanced Helicopter Gear Box Lubricant.

P/N 08-13960................**$4,724.00**

SKYDROL LD-4 HYDRAULIC FLUID

Skydrol LD-4 was also introduced in 1978, and is today the largest selling aviation phosphate ester fluid in the world. At the time of its introduction it was a breakthrough product, solving problems of valve erosion and thermal stability common in earlier fluids. Its excellent thermal stability under real world conditions has given it a reputation as the gold standard among Type IV fluids. In recent years it has received an additional qualification of 5000 psi approval under Boeing BMS 3-11 (Type V, Grade B and Grade C). Skydrol LD-4 features low density, excellent thermal stability, valve erosion prevention, and deposit control.

Single Quart.. P/N 08-12239................**$36.25**
Case of 24 Quarts .... P/N 08-12239-1 ....**$835.00**
Gallon .... P/N 08-12241.............**$131.95**
Case of 6 Gallons .... P/N 08-12241-1 ....**$780.00**
5 Gallon .... P/N 08-12240.............**$575.00**
55 Gallons .... P/N 08-13994...........**$5,631.00**

SKYDROL 500-B4 HYDRAULIC FLUID

The Skydrol 500 series of fluids has the longest service history among phosphate ester products. The first version, Skydrol 500, was introduced in 1952. Steady improvements to the formulation led in 1978 to the current version, Skydrol 500B-4 which contains the same breakthrough anti erosion additive and acid scavenger found in Skydrol LD-4. Skydrol 500B-4 is the most worker friendly of the aviation phosphate esters; it is least irritating to skin and less prone to form mists which can be irritating to the respiratory tract. This has given the product enormous popularity for use in workshops and indoor test stands.

Single Quart.. P/N 08-12463................**$39.50**
Case of 24 Quarts .... P/N 08-12463-1 ....**$916.00**
Gallon .... P/N 08-12462.............**$143.95**
Case of 6 Gallons .... P/N 08-12462-1 ....**$825.00**
55 Gallons .... P/N 08-13995...........**$6,221.00**

SKYDROL HYDRAULIC FLUID SKY-5

Introduced in 1996, Skydrol 5 was the first Type V fluid qualified under the Boeing BMS 3-11 specification. Skydrol 5 offers higher temperature capability than Type IV fluids, the lowest density, and better paint compatibility. Skydrol 5 does not have universal air frame manufacturer approval, so please consult Solutia's Skydrol Technical Service (800-260-4150) for specific approval and application information.

Single Quart.. P/N 08-12242................**$41.25**
Case of 24 Quarts .... P/N 08-12242-1 ....**$987.00**
1 Gallon .... P/N 08-13996.............**$158.95**
Case of 6 Gallons .... P/N 08-13996-1 ....**$914.00**

SKYDROL PE-5 HYDRAULIC FLUID

Skydrol PE-5 was developed to meet and exceed the more demanding Type V fluid requirements. It features the longest fluid life of any commercially available fluid, low density and low viscosity at low temperature; an unbeatable combination of the best features for optimum fluid performance. Thermal Stability according to Airbus test method, Fluid life test with 0.5% moisture level.

Single Quart.. P/N 08-14001................**$37.75**
Case of 24 Quarts .... P/N 08-14001-1 ....**$824.00**
Gallon .... P/N 08-14003.............**$131.95**
Case of 6 Gallons .... P/N 08-14003-1 ....**$770.00**
5 Gallon .... P/N 08-14005.............**$551.00**
55 Gallons .... P/N 08-14006...........**$5,143.00**

SKYKLEEN ® 1000 AVIATION SOLVENT

A generation aviation solvent that combines excellent cleaning performance with environmentally friendly characteristics. Cleaning Applications: • Skydrol® removal • Polysulfide sealant removal (cured/uncured) • RTV removal Degreasing • Carbon removal (brake and piston housings) • Engine cleaning • Final cleaning prior to painting and bonding • General surface cleaning • Carbon epoxy composite surface cleaning • Fiberglass resin removal • Adhesive/epoxy removal.

16 oz... P/N 08-13911................**$20.25**
Case of 16 oz. .... P/N 08-13911-1 ....**$312.00**
5 Gallon .... P/N 08-13909.............**$192.90**
54 Gallons .... P/N 08-13910...........**$1,573.00**

SKYKLEEN ® 2000 AVIATION SOLVENT

Combines excellent cleaning performance with environmentally friendly characteristics. Cleaning Applications: • Adhesive/Epoxy Removal • Carbon Epoxy Composite Surface Cleaning • Carbon Removal (Brake and Piston Housings) • Degreasing • Engine Cleaning • Fiberglass Resin Removal • Final Cleaning prior to Painting and Bonding • General Surface Cleaning • Polysulfide Sealant Removal (Cured/Uncured) • RTV Removal • Skydrol Removal

Single Quart.. P/N 08-13912.............**$104.95**
Case of 8 Quarts .... P/N 08-13912-1 ....**$790.00**
5 Gallon .... P/N 08-13914...........**$1,735.00**

AVIATION OILS & GREASES

PHILLIPS 66 X/C AVIATION OIL 20W50

X/C oils provide easy starting and quick lubrication under low temperature conditions. Provides film strength and low wear under high temperature conditions. Provides excellent protection against engine deposits, ring groove carbon, piston lacquer, crankcase sludge and oil oxidation. Contains ashless dispersant which keeps engine clean. With more than 10 years of outstanding field performance, X/C oil meets Avco-Lycoming & Teledyne Continental engine specifications.

Single Quart............................... P/N 08-05300 ....**$5.75**
Case of 12 Quarts .... P/N 08-05301 ....**$69.75**
Gallon .... P/N 08-13854-1 .....**$20.75**
Case of 4 Gallons....................... P/N 08-13854 ....**$82.75**
55 Gal. Drum .... P/N 08-07506 ...**$1,082.00**

PHILLIPS 25W-60 ENGINE OIL

X/C 25W-60 is the first and only multiviscosity aviation oil designed and approved for radial engines originally designed to run on 120 grade. Pilots and mechanics will notice immediate benefits with X/C 25W-60 over single grade oils. Benefits such as improved oil flow at startup, quicker warm-up time, cooler operating temperatures and a cleaner operating engine. X/C 25W-60 also has proven corrosion protection in extreme conditions. X/C 25W-60 can be used year-round, during break-in and on to TBO.

Quart... P/N 08-13856-1 ....**$4.75**
Case of 12 Quarts .... P/N 08-13856 ....**$68.75**
Gallon .... P/N 08-00885 ....**$23.75**
Case of 4 Gallons.. P/N 08-00886 ....**$84.75**
2.5 Gallon Container (Case of 2).................. P/N 08-13857 ......**$105.80**
55 Gallon Drum .... P/N 08-13855 ...**$1,124.00**

PHILLIPS 66® AVIATION OIL VICTORY 100AW

Phillips 66® Victory Aviation Oil 100AW is an ashless dispersant, single-grade engine oil pre-blended with the proper concentration of antiscuff/antiwear additive (LW-16702) as mandated by Lycoming Service Bulletins 446E and 471B and Service Instruction 1409C. It is recommended for use in opposed piston and radial piston aircraft engines where cam lifter wear is a concern.

Quart......................... P/N 08-13850-1 ....**$5.50**
Case of 12 Quarts ..... P/N 08-13850 ....**$67.75**
55 Gallon Drum .... P/N 08-14860 ...**$1,113.00**

PHILLIPS 20W-50 MINERAL OIL

Type M is generally recommended and used as a break-in oil for newly overhauled aircraft engines. Type M is generally used by engine overhaul and repair shops for the initial run-in of aircraft piston engines. Type M 20W-50 is designed for owners and pilots who want the performance of a multi-viscosity, mineral based piston engine aviation oil without dispersant additives.

Single Quart............................... P/N 08-07197 ....**$5.50**
Case of 12 .... P/N 08-07198 ....**$64.75**
55 Gallon Drum.......................... P/N 08-13846 ...**$1,078.00**

PHILLIPS 66 TYPE A 100AD OIL

Phillips 66 Type A 100AD is a premium, single grade oil designed for opposed piston aircraft engines that call for SAE 50 or Commercial Grade 100 oils.

Single Quart ....P/N 08-00882 ....**$5.75**
Case of 12..............................P/N 08-05321 ....**$66.75**
55 Gallon Drum ....P/N 08-13847 ....**$1,038.00**

PHILLIPS 66® AVIATION ANTI-RUST OIL

Helps preserve aircraft piston engines during periods of inactivity. For planes that are infrequently flown, we recommend replacing up to 10% of the crankcase volume with Aviation Anti-Rust Oil 20W-50 protects against corrosion.

Gallon .... P/N 08-07401-1 .... **$27.69**
Case (46 Gal) .... P/N 08-07401 .... **$110.75**
55 Gallon Drum ...... P/N 08-13845 .... **$1,283.00**

PHILLIPS 66 XC AERO OIL SAE

X/C Aviation Oil was the first FAA-approved mineral oil-based, ashless dispersant, multiviscosity aviation engine oil. Recommended for use in radial piston engines and in other aviation piston engines originally designed to run on heavier-grade oils, such as Commercial Grade 120.

P/N 08-13023....................**$52.25**

PENNZOIL OIL

Two-cycle oil for air-cooled engines. Recommended by engine manufacturers for air- and water-cooled engines.

8oz. Single Bottle........................P/N 08-06261 ....**$2.45**
Case of 8 oz. Bottles ....P/N 08-06260 .....**$54.75**

AEROSHELL GREASES

Shell Aviation offers a range of aviation greases designed to fill almost every lubrication need of the aviation community. Aeroshell greases are now slightly darker in color than before due to new factory formulation.

Description	14 oz Tube PN	Price 14 oz Tube	6.6 lb Can PN	Price 6.6 lb Can
Aeroshell Grease # 5	08-05455	**$11.65**	08-12335	**$73.50**
Aeroshell Grease # 6	08-05460	**$9.25**	08-13568	**$58.95**
Aeroshell Grease # 7	08-05475	**$19.00**	08-12238	**$139.00**
Aeroshell Grease # 14	08-05480	**$8.50**	08-13151	**$61.95**
Aeroshell Grease # 22	08-05490	**$12.65**	08-12236	**$89.25**
Aeroshell Grease # 33	08-00825	**$16.75**	08-13462	**$116.00**
Aeroshell Grease # 64	08-00824	**$19.75**	08-13962	**$136.75**

Description	Size	Part No.	Price
Aeroshell Grease # 22	5 Gallon	08-15792	**$474.00**
Aeroshell Grease # 14	5 Gallon	08-15766	**$309.00**
Aeroshell Grease # 33	5 Gallon	08-15769	**$641.00**
Aeroshell Grease # 64	5 Gallon	08-15771	**$755.00**
Aeroshell Grease # 5	5 Gallon	08-15772	**$389.00**
Aeroshell Grease # 6	5 Gallon	08-15773	**$304.00**
Aeroshell Grease # 7	5 Gallon	08-14586	**$647.00**

MOBIL GREASE 28

Mobilgrease 28 meets the quality level of U.S. Military Specification MIL-G-81322G, General-Purpose, Aircraft, and is approved against U.S. Military Specification DOD-G-24508A (Navy) for shipboard auxiliary machinery. It can be designated U.S. Military Symbol WTR and NATO Symbol G-395.

Grease 28 .... P/N 08-06157........................ **$14.85**
Case .... P/N 08-07400....................... **$577.00**
5 Gallon .... P/N 08-14587....................... **$512.00**

EXXON MOBIL GREASE 33 (CARTRIDGE)

Mobligrease33 is a true multipurpose aviation grease intended for use in highly loaded anti-friction bearings, gears, and actuators as well as instruments, high speed bearings (though not recommended for wheel bearings), and general airframe lubrication, over operating temperatures from 100° F to 250° F.

Cartridge...P/N 08-07407-1....**$15.85** Case....P/N 08-07407..**$625.00**

GREASE SHC-100

Mobil Aviation Grease SHC 100 is the product of choice for aircraft wheel bearing applications. Exceptional performance of Mobil Aviation Grease SHC 100 includes long grease life, enhanced bearing protection and bearing life in aircraft wheels, and wide temperature range of application.

4.4 lb. Can .... P/N 08-13740........................ **$81.00**
Case of 4 Cans............................ P/N 08-13742...................... **$324.00**

ISOFLEX GREASE FOR ROTAX ENGINES

Synthetic long-term lubricating grease for a wide service temperature range. Low starting and running torque. Good wear protection Good corrosion protection. Resistant to oxidation and ageing. 400 gram cartridge. P/N 15-08430 ....**$186.75**

LEVER ACTION GREASE GUN

Multipurpose grease gun. Uses 14 ounce cartridges, bulk loaded, or loaded through a dispenser. Comes with 6" nozzle and 9" flex hose

P/N 08-07180 ....**$31.50**

ROYCO 560 TURBINE OIL

A synthetic ester-based, broad application, 5 cSt turbine engine oil that is blended with corrosion inhibition in mind and for strong oxidative and thermal stability performance. These ester lubricants include hydraulic and aviation fluids, preservatives, turbine oils, drivetrain oils, performance greases and specialty products. They are engineered to meet or exceed the most rigorous application requirements including military specifications, Boeing approvals, and public transportation constraints.

Quart............................ P/N 08-13989-1......**$21.50**
Case of 24 Quarts.......... P/N 08-13989.......**$444.00**

ROYCO 586M LUBRICANT OIL

LANXESS
Energizing Chemistry

A blend of highly refined mineral oils and additives that achieve excellent load carrying capacity and corrosion/oxidation inhibition. A higher viscosity and load carrying capacity than Royco® 586L Lubricating Oil. Designed for application in gear boxes and specified helicopter transmissions. High temperature load carrying lube which meets MIL - PRF - 6086 specifications.

5 Gallon .... P/N 08-16222 .... **$223.95**

CLEAN FUNNEL™

model 112

model 415

model 428

Clean Funnel™ is the funnel that keeps itself clean. Replacing the caps on each end after each use prevents left over fluid from dripping out, and keeps your work area or baggage compartment clean. No need to wipe your funnel out with a rag before reusing. Clean Funnel™ is ideal for use with fuel or oil as well as windshield washer fluid, detergents, antifreeze, hydraulic fluid, and more. Great for aircraft, automobiles, motorcycles, tractors, boats, ATV's snowmobiles, and more.

- Model 112 (turquoise) has a 1 pint fluid capacity and a 12" vinyl tube attached to its spout, making it very handy to reach into small or tight spaces.
- Model 415 (red) has a 1-1/2 quart capacity, 17" long with flexible spout, and spout I.D. is 9/16".
- Model 428 (black) has 1-1/2 quart & 13-1/4" long with a flexible spout and 1-1/8" O.D. spout.

Model #	Color	Part No.	Price
112	Turquoise	12-00374	**$8.50**
415	Red	12-00375	**$10.70**
428	Black	12-00376	**$10.70**

DISPOSABLE FOLDING OIL FUNNELS

These disposable funnels are very popular among aircraft owners and pilots for adding engine oil. They store flat, clean and dry in a reclosable bag, and eliminate the messy cleaning when using a regular funnel. Also ideal for brake fluid, resins, and paints. Furnished in pack of 10 funnels.

Pack of 10....P/N 08-00040........**$3.55**

OIL DRIP PAN

The drip pan is 54-1/2" x 32-1/2" x 2" and is manufactured out of an extremely durable and chemical resistant plastic (high density polyethylene). White in color, our drip pan is neat and clean in appearance and allows for easy visual inspection and monitoring of any engine leaks. The size and design of the drip pan will collect virtually any leaking fluids and eliminate the need for five quart pails and other messy collection containers. It is also a convenient place to pour fuel samples. Specifically designed for general aviation.

P/N 08-06700.........**$129.00**

OIL DRIP PANS

These newly developed oil Drip Pans are designed to protect floors from those irritating drips of oil, fuel and hydraulic fluid. They are overlapping to prevent drips from getting between the pans. Their interlocking feature allows various pan sizes to be joined, protecting floors from all shapes and sizes of aircraft. Their lightweight and durable plastic design makes for easy set-up and clean-up. The interlocking feature allows various pan sizes to be joined, protecting floors from all shapes and sizes of aircraft, cars, buses, trucks and more! " Includes: (1) DripPansUSA Oil Absorbent Pad, made of a minimum of 40% recycled polypropylene.

18" X 48" Interlocking ....P/N 08-07508 .... **$29.95**
24" X 30" Interlocking ....P/N 08-07378 .... **$29.95**

DRIP PAN OIL ABSORBANT PADS

DripPansUSA Oil Absorbent Pads Absorb: oil, coolants, transmission fluids, other hydroid fluids, and water. Can also be used under and around machinery, as shelf liners, and for other clean-up applications. Made of durable blown polypropylene and have many other uses around the home and shop. DripPansUSA Oil Absorbent Pads are made of a minimum of 40% recycled polypropylene. Available in 6pk, 8pk and 12pk sizes. DripPansUSA Oil Absorbent Pads are made in the USA.

6 Pack..................................P/N 08-07510 .... **$7.95**
8 Pack..................................P/N 08-07511 .... **$9.95**
12 Pack................................P/N 08-07512 .... **$13.95**

CANKEY TURBINE OIL CAN OPENER

The CanKey turbine oil can opener is a simple and inexpensive tool that will open turbine oil cans without the risk of debris entering the can. Using other tools to open the oil cans can lead to metal shavings and other FOD being left in the can which can lead to damage to engine parts. Eliminate this issue by using the CanKey. P/N 08-13836............**$5.95**

TURBINE OIL / HYDRAULIC FLUID CAN DUST CAP

Turbine oil / hydraulic fluid can dust cap.

P/N 08-13837............**$1.50**

DRIP TRAP - OIL ABSORBENT

Drip Trap is a mat made of corn stalks which captures oil, coolant, and other aviation fluids that can drip from the aircraft. Drip Trap measures 20" x 20" and can absorb up to 6 quarts of oil. It won't blow away, can be driven on, won't tip over like a drip pan, and can be walked on without tracking the fluids on the hangar floor. Excellent for use with aircraft, cars, SUV's, trucks, motorcycles and in shops. When Drip Trap is fully saturated just dispose of it and replace. Drip Trap is the environmentally friendly and economical way to capture and contain drips and spills. P/N 13-04950 .... **$22.95**

OIL SAVER FUNNEL

The OIL-SAVER is simple in appearance, but a great deal of research has gone into its design. It consists of a basic rectangular funnel that's molded to hold six inverted oil bottles, the contents of which gradually drain out and into the depository of choice -- usually another oil bottle, leaving the plastic bottles clean enough for recycling.

And with thousands of funnels already in use, they have proven to be versatile, practical tools that allow you to save money and recycle.

Features: Innovative, Customer Friendly, Multi-purpose Containment Residual Liquid Reclamation, Pro-active, Money-making Design, Exceeds Recycling Standards, Convenient Storage, Global Application, No Assembly Required, Green / Enables Consumer to Take Pre-emptive Steps to Protect the Environment.

Color	Part No.	Price
Red	08-07391	**$12.95**
Orange	08-07533	**$12.95**
Yellow	08-07534	**$12.95**
Green	08-07535	**$12.95**
Blue	08-07536	**$12.95**
White	08-07537	**$12.95**

BOGERT AVIATION ENGINE CESSNA OIL QUICK DRAIN STC

TWIN

Drain oil in wind or shop with little clean up. Saves money on clean up, solvent, labor and parts. Oil goes into bucket without splashing or spilling. Made in the USA

Approved for: Cessna 210J through 210 R, T210J through T210R, P210H through P210R, 337 through 337H, T337B through T337H, and P337H, 310 through 310R, T310P through T310R, 320 through 320F, 340, and 340A, 401 through 401B, 402 through 402C, 404, 411, 411A, 414, 414A, and 421 through 421Cnd 421 through 421C

Description	Part No.	Price
Single Engine Kit Includes: 1 ea. 09-OQD STC Paper work 1 ea. 09-Probe 1 ea. 09-BJ107 Valve w/o-ring 1 ea. 09-AN900-10 Gasket	12-02101	**$286.95**
Twin Engine Kit Includes: 1 ea. 09-OQD STC Paper work 1 ea. 09-Probe 2 ea. 09-BJ107 Valve w/o-ring 2 ea. 09-AN900-10 Gasket	12-02102	**$488.00**

VALVOLINE VV825 HIGH PERFORMANCE GEAR OIL

Valvoline® High Performance Gear Oil is a thermally stable, extreme-pressure gear lubricant that withstands severe temperatures and shock loading while providing excellent anti-wear, anti-scuffing, rust and corrosion protection. Reduced chattering in limited-slip differentials. Gear teeth wear protection from pitting and scouring. All hypoid differentials (conventional and limited slip) and manual transmissions in passenger cars, light trucks, sport utility vehicles, vans and heavy-duty trucks where an API-GL5 or MT-1 fluid is specified. P/N 15-05963....................**$11.65**

FUELING NOZZLE REPLACEMENT HANDLES

Aviation Underwing Fueling Nozzle replacement handle. Colors available are black /red. UV-Fuel-Chemical resistant. Flame Retardant. Non marking. Exceeds FAA and Military Standards. -20 F TP 200 F Service integrity. (4.40" length x open dia 0.65" x depth of 1.15") dimensional tolerance +- 0.10. Material Urethane rigid 80 shore A +- 7.5

Single Black.......................... P/N 08-13561 .... **$18.50**
Single Red............................ P/N 08-13562 .... **$18.50**
Set of Black .... P/N 08-13563 .... **$34.55**
Set of Red .... P/N 08-13564 .... **$34.50**

EP

SPOUT DUST COVERS

Spout Covers for OPW 295 Series. D Spout Cover/Dust Cover. Colors available are red, black and blue.

Size	Color	Part No.	Price
Round			
1”	Red	08-13555	**$18.50**
1”	Black	08-13556	**$18.50**
1”	Blue	08-13557	**$19.75**
1.5”	Red	08-13558	**$18.65**
1.5”	Black	08-13559	**$20.50**
1.5”	Blue	08-13560	**$20.50**
Rectangular			
Size	**Color**	**Part No.**	**Price**
1.5”	Red	08-13552	**$26.50**
1.5”	Black	08-13553	**$19.75**
1.5”	Blue	08-13554	**$26.50**

NO SPILL OIL SPOUT™ WITH ON-OFF VALVE

Patented On/Off valve. Adjustable flow. No-mess... No-spill. Rev. B 3-11 P/N 14-00024 .... **$6.95**

SUPER FLEXI-SPOUT

Works great for hard to reach areas. Dual threading fits most sized containers. Perfect for adding motor oil, anti-freeze, transmission and windshield washer fluid.
P/N 14-00707 .... **$3.75**

OIL BUDDY (NO SPILL)

For do it yourself oil changes or refilling small tanks in lawn mowers, snowblowers and chainsaws, Oil Buddy is your best tool. Eliminating the messy cleanup and spillage problems, Oil Buddy gets the job done fast and easy without getting your clothes dirty. For small fill ups, the Oil Buddy screws onto the head of the oil container and can be left there for further use if the bottle is still partially full. When the valve is closed, oil can't get out and dirt can't get in. Even if the oil container gets knocked over, no spillage will occur. Fits most 1-Quart /1-Litre bottles. P/N 13-03144 .... **$2.75**

EP

EVANS NPG + COOLANT FOR ROTAX ENGINES

NPG+ is new coolant providing dramatic improvements in heat transfer and viscosity that make the new fluid a “pour-in,” not requiring changes to cooling system components. NPG+ waterless coolant virtually eliminates boil over in gasoline or diesels - the waterless coolant allows engines to tolerate running hotter, without boiling over, and allows the cooling system to run at very low or no pressure. Because there is no water in the system engines operating with NPG+ will be free from corrosion and electrolysis, and the engines will run well no matter how hard they are driven or how hot or cold the environment is. Specified coolant for Rotax Aircraft Engines, Type 912 and 914 (series). P/N 08-04535.............**$45.52**

EVANS PREP FLUID

Evans Waterless Flush is used when systems cannot be drained properly of all the conventional water and anti-freeze. Suggested to be used with experimental aircraft conversion and all motorcycle, ATV and import cars. Not intended to be used as a coolant.
P/N 08-04534.............**$31.96**

SHELL DEXCOOL® ANTIFREEZE / COOLANT

Single-phase, ethylene glycol based, extended life, universal automotive engine coolant. Suitable for a five year or 150,000 mile service life in automotive applications. It meets GM6277M-General Motor's Extended Life Coolant specification and will provide effective, long term corrosion protection for critical engine metals.
P/N 15-05767 .... **$24.50**

NEXT AIRCRAFT SERVICE DUE - STICKERS

Service reminder decal “NEXT AIRCRAFT SERVICE DUE” decal is black text on white semigloss background with “FILL IN” blanks. Removable decal is designed to adhere to any surface and not leave residue behind, perfect for aircraft rentals, owners, CFI's, trainers, service/repair stations, POH, log books, instrument panels, windows. Decal measures 3” x 3”.
P/N 09-02137 ....**$0.45**

OIL INJECTION / WATER OVERFLOW RESERVOIRS

Constructed of high density polyethylene, these blow molded multi-purpose tanks offer excellent durability and resistance to most chemical and fluids. Express service tanks come with a cap and straight fittings. All tanks come with a 2-1/4” buttress thread cap and a straight fitting which fits a 1/4” hose. All sizes nominal. Height includes neck & fittings. Width includes mounting tabs. Max working temperature is 180-deg F and max working pressure is 5 PSI. 1 Quart 6.21” x 7.74” x 3.62” **Includes 1/4” barb spigot molded on bottom** ....P/N 15-06828 ....**$28.50**
1.5 Quart 7.71” x 7.74” x 3.62” ....P/N 15-06830 ....**$12.75**
2 Quart 7.04” x 8.632” x 4.173” ....P/N 15-06936 ....**$22.85**
4 Quart 11.652” x 8.632” x 4.173”..............P/N 15-04841 ....**$22.00**

Accessories

Reservoir Tank Cap with Seal - 2-1/4”........P/N 15-05092 ....**$3.65**
Nylon Vented Cap - 2-1/4” ....P/N 15-06936-1 ....**$3.60**
Oil Water Reservoir Only ....P/N 15-06936-2 ....**$19.65**

FORM-A-FUNNEL®

Aviation Funnel, go with the flow. When you need to get into a tight, hard to reach place or require extra length, the Aviation model (29” x 5”) is the tool for the job.
Thick, pliable nitrile rubber coating completely encases a thin, bendable layer of aluminum alloy that resists wear.
Reshape and reuse it over and over.
Edges can be molded around filters or drains to create a leak-proof seal.
Keeps oil off of engines, frames and surrounding parts.
Highly compatible with common automotive fluids.
Works in temperatures from -30F° to 425F°.
Cleans easily with cleaners and degreasers.
Aviation Funnel (29” x 5”)............................P/N 12-03148 ....**$34.99**
General Purpose Funnel (14.5” x 6.5”) ....P/N 12-03147 ....**$21.99**
General Purpose Kit (14.5” x 6.5” & 9” x 4.75”)
P/N 12-04819 ....**$33.00**

ROTELLA OIL 15W-40

Shell ROTELLA® T SAE 15W- 40 is a leader in meeting leading OEM specifications, as well as the enhanced oil performance requirements for API CI - 4 PLUS, Caterpillar ECF-1, Mercedes-Benz 228.3, Cummins CES 20078, Detroit Diesel 93K214, Mack EO-N Premium Plus 03, Mercedes-Benz 228.3, and Volvo VDS-3, and meets the warranty requirement of all major diesel engine manufacturers. P/N 15-05767 ....**$24.50**

MOBIL 1 4T MOTORCYCLE OIL

Mobil 1 Racing 4T oil meets all the requirements for Rotax 4 stroke aircraft engines. This is a full synthetic oil designed for motorcycles, however is an excellent choice for Rotax 4 stroke aircraft engines because of the gearbox and close internal tolerances. Mobil 1 Racing 4T has been fully tested, both on laboratory dynamometers and in the field, to help provide optimum horsepower and acceleration.
P/N 08-13892.....................**$16.95**

SEAFOAM MOTOR TREATMENT SF-16

Sea Foam 16 oz. motor treatment for gas and diesel engines For use in gas, ethanol, diesel or biodiesel engines. Internal engine use only. Can be used in 2-cycle and 4-cycle engines.
•100% pure petroleum product. Works instantly to clean deposits from internal engine parts and remove moisture from oil crankcases and fuel tanks. As a fuel system additive, and an oil system additive. P/N 09-04615 ....**$14.95**

Prices Subject to Change Without Notice

PIG® OIL ABSORBENT PRODUCTS

PIG® LIGHT WEIGHT OIL ONLY ABSORBENTS

Hangs anywhere, goes anywhere! Grab one Pad or the whole tablet to clean up an oil-based spill or splatter in any corner of the shop. Durable PIG® Oil-Only Mat quickly soaks up gas and oil but won't waste absorbency on water like rags or floor sweep! Self-extinguishing material helps eliminate fire hazards; melts instead of burning if contacted by direct flame.

100 each 15"x20" Pads .... P/N 08-07317 .... **$44.85**
15"x50 ft. Roll .... P/N 08-07320 .... **$21.75**

PIG® MEDIUM WEIGHT OIL ONLY ABSORBENTS

Clean up oil-based spills without wasting absorbency on water. Unlike rags or floor sweep, PIG® Water-Repellent Oil-Absorbent Mat quickly soaks up gas and oil but repels water from rain, slush, washdowns, ponds and sumps and more!.

*3 each 15"x20" Pads .... P/N 08-07354 .... **$4.85**
100 each 15"x20" Pads .... P/N 08-07318 .... **$65.80**
30"x150 ft. Roll .... P/N 08-07321 .... **$105.99**

PIG® UNIVERSAL LIGHTWEIGHT ABSORBENTS

This Tablet goes anywhere to clean up drips, spills or splatters throughout the shop. Easier to use than floor sweep, so it reduces cleanup time. And with no damaging dust and grit to track around, the shop stays cleaner! Convenient pop-up tabs let you hang the Tablet anywhere you need it

*15 each 14"x14.25" Pads .... P/N 08-07314 .... **$13.50**
100 each 15"x20" Pads .... P/N 08-07312 .... **$64.75**
15"x50 ft. Roll .... P/N 08-07315 .... **$21.90**

PIG® MEDIUM WEIGHT UNIVERSAL ABSORBENTS

Genuine PIG® Mat is the better way to soak up drips, spills and splatters, and spend more time repairing vehicles. Easier to use than floor sweep so it reduces cleanup time. And with no damaging dust and grit to track around, the shop stays cleaner! • Safely absorbs and retains oil, coolants, water, grease, gasoline, solvents, auto fluids, paint overspray, battery acid and most other liquids

*3 each 15"x20"Pads .... P/N 08-07353 .... **$4.50**
100 each 15"x20" Pads .... P/N 08-07313 .... **$77.75**
30"x150 ft. Roll .... P/N 08-07316 .... **$122.85**

PIG® UNIVERSAL ABSORBENT SOCKS

Wrap flexible, self-contained PIG® Socks around tanks, drum areas and puddles to halt the spread of liquid while the Socks' thirsty absorbent filler absorbs it. Easier to use and clean up than messy floor sweep! • Moldable Socks surround equipment, drums or tanks and contain spills to keep them from spreading into walkways; also great for catching liquid that seeps under overhead doors Safely absorbs and retains oil, coolants, water, grease, gasoline, solvents, auto fluids, paint overspray, battery acid and most other liquids.

*2 Universal Socks .... P/N 08-07324 .... **$9.95**
12 Universal Socks .... P/N 08-07327 .... **$44.50**
12 Water Repelling Socks (oil only) P/N 08-07325 .... **$59.75**

*** Designates item pictured.**

PIG® UNIVERSAL LIGHT WEIGHT ABSORBENT DRUM-TOP PADS

Eliminate messy drum storage areas without touching a mop or rag! Precut to fit on 55-gallon drums, Quickly absorb drips or overfills to help keep your shop clean and safe, so you can focus on repairing vehicles. Highly absorbent material traps liquids, so it won't drip or leave behind fibers when you pick it up; spend less time collecting used absorbent between jobs.

5 Pads .... P/N 08-07328 .... **$11.50**
20 Pads ..... P/N 08-07329 .... **$39.50**

PIG® MAGNETIC ROLL HOLDER

Keep your PIG® Mat within an arm's reach for easy access and hassle-free dispensing. The PIG® Magnetic Roll Holder attaches to any metal surface to keep Mat off the floor and close at hand. • Holds one 15"W x 50'L PIG® Mat Roll (P/N 08-07320 or P/N 08-07315) for easy one-hand dispensing• Durable, powder-coated steel resists chips, rust and corrosion • Powerful magnets keep Roll Holder firmly in place during dispensing; can be removed and relocated in seconds.14.5" Magnetic Roll Holder

P/N 08-07331 .... **$24.95**

PIG® VERTICAL ROLL HOLDER

Dispense PIG® Mat the convenient way with this handy roll holder! Its free-standing, locking metal frame adjusts to accept a wide variety of rolls and is collapsible for compact storage. • Adjust center bar to change width; choose 16" to save space and keep small rolls from sliding or 33" to maximize PIG® Mat supply. .... P/N 08-07332 .... **$74.85**

EP

PIG® UNIVERSAL SPILL KIT

Respond to spills fast so you can get back to work. Our hi-viz Kit has the supplies you need for quick cleanups, and it's so affordable you can stock every spill-prone spot in your shop or stash one in each fleet vehicle for better liability protection! • Moldable Socks • Mat Pads • Bright nylon Bag stands out, so you can find it when you need it.

Universal Spill Kit .... P/N 08-07326 .... **$57.75**

PIG® TRAFFIC MAT® RUG

Help keep extreme-traffic walkways dry and safe with this highly durable, absorbent Rug. Heat-fused TRAFFIC MAT® Rug won't rip or fray, even under wheeled traffic, so it's perfect for ensuring heavy-use, splash-prone areas stay clean and injury free. • incredible durability; won't ball or fray, even under wheeled traffic • Roll out to add traction and absorbency near parts washers, paint areas, work benches, doorways, service bays and other high-wear areas • Self-extinguishing material helps eliminate fire hazards; melts instead of burning if contacted by direct flame.

*36"x150 Ft. Standard Mat .... P/N 08-07322 .... **$137.99**
36"x100 Ft. Polybacked Mat .... P/N 08-07323 .... **$225.95**

PIG AIRCRAFT SPILL KITS

Versatile spill kits go in a compartment or mounted container to keep you prepared for spills.

DUFFEL BAG - Fluids Absorbed: Oils, Coolants, Solvents & Water Spill Volume: 1 - 9 gal. Weight: 9.36 lbs. Includes: 3 - ext. dia. 3" x 48" L PIG® Blue Absorbent Sock (4048) 15 - 15" W x 20" L PIG® Absorbent Mat Pad (MAT204) 1 - ext. dia. 3.25" x 1.75" H PIG® Plug-N-Seal® No-Freeze Patching Paste (PTY237) 1 - Collapsible Container 1 - Economy Goggles (GLS290-AF) 1 - 13" L Showa-Best Chem Master(TM) Neoprene Gloves (GLV213-XL) 1 - Apron 5 - 18" W x 30" H Polyethylene Disposal Bags (BAG201-S) 1 - Lightstick 1 - Instructions. P/N 08-13247 .... **$163.80**

STOWAWAY BAG - Fluids Absorbed: Oils, Coolants, Solvents & Water Spill Volume: 1 - 9 gal. Weight: 11.5 lbs. Includes: 3 - ext. dia. 3" x 48" L PIG® Blue Absorbent Sock (4048) 40 - 15" W x 20" L PIG® Absorbent Mat Pad (MAT204) 2 - ext. dia. 3.25" x 1.75" H PIG® Plug-N-Seal® No-Freeze Patching Paste (PTY237) 1 - Collapsible Container 1 - 13" L Showa-Best Chem Master(TM) Neoprene Gloves (GLV213-XL) 1 - Economy Goggles (GLS290-AF) 1 - Apron 1 - Lightstick 5 - 18" W x 30" H Polyethylene Disposal Bags (BAG201-S) 1 - Instructions. P/N 08-13245 .... **$198.75**

TOTE BAG - Fluids Absorbed: Oils, Coolants, Solvents & Water Spill Volume: 1 - 9 gal. Weight: 20.15 lbs. Includes: 4 - ext. dia. 3" x 48" L PIG® Blue Absorbent Sock (4048) 25 - 15" W x 20" L PIG® Absorbent Mat Pad (MAT204) 1 - PIG® LITE-DRI® Loose Absorbent (PLP218) 1 - 10" W x 12" L PIG® Premoistened Hand and Surface Wipers (WIP1300) 2 - ext. dia. 3.25" x 1.75" H PIG® Plug-N-Seal® No-Freeze Patching Paste (PTY237) 1 - Collapsible Container 5 - 18" W x 30" H Polyethylene Disposal Bags (BAG201-S) 1 - Dustpan/Broom 1 - Economy Goggles (GLS290-AF) 1 - 13" L Showa-Best Chem Master(TM) Neoprene Gloves (GLV213-XL) 1 - Apron 1 - Lightstick 1 - Instructions. P/N 08-13246 .... **$270.95**

SPARK PLUG CADDY

Handy case holds (2) 14mm spark plugs. Small enough to fit into your pocket.
P/N 13-03869 .... **$3.95**

SPARK PLUG WRENCH

Loosen or tighten your spark plugs with this handy tool.
P/N 13-03921 .... **$3.90**

PLASTIC STARTER HANDLE

Black flexible plastic heavy duty handle.Tested to –40°F
P/N 13-03865 .... **$6.50**

SPARK PLUG JACK

Rivets or screws to any flat surface and holds two spare 14mm plugs. Tough polycarbonate plastic with spring-loaded plug anchors keeps plugs dry and protects gaps. P/N 13-03870 .... **$6.50**

NYLON STARTER ROPE

The perfect replacement rope for worn-out manual starters. P/N 13-03922 .... **$0.45 per ft.**

SPARK PLUG CAPS

Original NGK. Black. 5000 ohm resistance. P/N 08-00737 is used on threaded type plugs. P/N 08-04960 is used on solid top plugs.
P/N 08-00737 .... **$2.75**
P/N 08-04960 .... **$2.60**

SPARK PLUG WIRE

High-quality multi-strand copper core unshielded wire. 7mm diameter. For all Rotax® and most other engines. Replaces Rotax® Part No. 965-158.
P/N 11-04105 .... **$1.03 per ft.**

FLEXDRIVE

PosiFlex coupler for Quicksilver®
For 377/477 w/o high-thrust mod .... P/N 05-01985 .... **$269.95**
For all high-thrust mods .... P/N 05-01986 .... **$330.00**

POSI-FLEX DRIVESHAFT

Greatly reduces vibration transmitted to the airframe. Internal rubberized flex joint allows for slight changes in shaft alignment. A popular update on most older Quicksilver aircraft. Also used as standard equipment on all current shaft drive Quicksilver aircraft. Cuyuna 430 or Rotax 503. 25-1/2" blunt.
P/N 15-06600 .... **$204.95**

RATIO-RITE CUP

Getting the right oil-to-gas ratio is no problem with this tough polypropylene cup. Just fill the cup with oil to the ratio level desired, and mix with gasoline. Ratios from 16:1 to 50:1. Graduated in ounces and CCs for filling chain cases, etc. 18 oz. capacity.
Cup............ P/N 08-01091 .... **$4.35**
Lid............. P/N 08-03677 .... **$1.80**

SYPHON MATE

Here's a safe and easy method of fuel transfer. A simple jiggle of the Syphon Mate establishes the flow, and then air pressure maintains it. Never wears out, and it's guaranteed for three years. The outlet end is 1/2", 6' length standard pipe thread for easy attachment to a garden hose, if needed. .... P/N 05-01018 .... **$8.75**

AIR-TECH ROTAX GEAR BOX CLUTCH RK400

The primary purpose of the clutch is to disengage the prop from the engine allowing it to start and operate at idle without vibration. When the engine is idling (below 2350 RPM) the prop is not turning. Installation of the clutch replaces the gear box flywheel and the hardy disk. Added weight is approx. 3 Lbs. P/N 10-04811 .... **$549.00**

CRAZEDPILOT ROTAX 582 GEARBOX BADGE PLATE

Fits E-Drive aka E-Box gearbox AND the C-Box gearbox. Package comes complete with 2 plates, and includes properly threaded bolts with aluminum standoffs to provide original air ventilation from gearbox. Powder coated for maximum lifespan. P/N 11-13317.............. **$39.00**

STAINLESS STEEL FIREWALL SHIELDS

Two piece shields for use over cables or wires with large end-fittings or existing installations. Single piece for use where the cable or wire may pass through the hole. Flat shields designed for use on wooden or composite firewalls using a fire resistant sealant to prevent leaks. Both types of shield available in flat or with dimple to accommodate rubber grommets up to outside diameter.

Actual hole size in 2 piece shields is slightly larger than indicated to prevent chafing cable. Ream pilot hole in single piece shields oversize for the size grommet used. Use grommets that fit tightly around the cable or wire to insure a good seal.

Shields may be installed with screws, bolts and plate nuts or rivnuts. Install cable and grommet in firewall. Locate the shield to insure that it is centered on the cable - then drill attach holes in firewall. Shields pre-drilled with 5/32" mounting holes. If more than one cable passes through grommet fire resistant sealant must be applied to grommet.

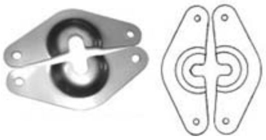
Caution: Any holes drilled in the firewall are potential source of carbon monoxide in the cockpit. Extreme caution must be exercised when installing firewall shields in your aircraft. They do not provide the necessary seal around cables or wires to prevent carbon monoxide, smoke or fire from entering the cockpit. The shields are designed only to protect the sealing material (grommets/gaskets) from excessive heat.

Two piece firewall shield, 5/32-Inch hole with 3/4-Inch dimple for grommet.
P/N 08-13832.......... **$9.50**

Two Piece 3/8" Hole 1" Dimple For Grommet
P/N 61-375............ **$11.50**

Two Piece 3/8" Hole 1-1/4" Dimple For Grommet
P/N 61-475............ **$11.50**

Two Piece 1/2" Hole 3/4" Dimple For Grommet
P/N 61-300............ **$11.50**



Two Piece 1/4" Hole 3/4" Dimple For Grommet
P/N 61-250............ **$11.50**

Two Piece 3/8" Hole 3/4" Dimple For Grommet
P/N 61-275............ **$11.50**

FLEXDRIVE

PosiFlex coupler for Quicksilver®
For 377/477 w/o high-thrust mod .... P/N 05-01985 .... **$269.95**
For all high-thrust mods .... P/N 05-01986 .... **$330.00**

CRAZEDPILOT ROTAX 503 BADGE PLATE

These Rotax 503 Badge Plates covers that ugly hole in the side of your Rotax gearbox on the side of your Rotax 503 engine. Comes complete with 2 plates, and includes properly threaded bolts with aluminum standoffs to provide original air ventilation. Powder coated for maximum lifespan.
P/N 11-14864............... **$33.50**

ROTAX THROTTLE SPRINGS 6822

A common complaint about the Rotax 912/914 engines is that the throttle return springs are too strong. McFarlane stocks a variety of springs so you can choose the one that best fits your application. All McFarlane throttle controls for Rotax engines include P/N 6822 spring. Less than half the strength of the original stock Rotax springs. Prevents throttle "creep" due to excessive return spring force. Requires 1 per carburetor (2 per engine) Note: Installer is responsible for determining whether this spring is an appropriate substitution for their application. For use on non-certified aircraft. Comes in a pack of two.
P/N 05-12477............... **$19.80**

Prices Subject to Change Without Notice

Barry Controls has actively supported the general aviation market since 1981 and holds PMA approvals on a wide range of engine mounts. Barry mounts are warranted for 500 hours or 12 months and feature outstanding quality & value. Call for unlisted part numbers.

BEECHCRAFT

Aircraft		P/N	Engine	Price
Common Name	Model			
Skipper	77	94150-40	All	$118.85
Sport	B19, M19A	94150-01	All	$87.75
Sundowner	C23	94150-01	All	$87.75
Bonanza	S-35-V35, A, B, C33A, E33A, C, F33A, C, 36	7351231-3	All	$143.75
Bonanza	A36	7351231-3	All	$143.75
Sport (Musketeer)	19A	94150-01	All	
Twin Bonanza	E50, G50, H50, F50, J50	94110-40	All	$94.75
Turbo Baron	56TC, A56TC	94011-04	All	$137.65
Baron	58P	94031-03	All	$179.90
Baron	58TC	94031-03	All	$179.90
Baron	A24, A24R, B24R, C24R, D55, D55A, E55, E55A, 58, 95-C55, 95-C55A	96068-01	All	$208.85
Baron	99-55, 95-A55, 95-B55, 95-B55A	96071-01	All	$496.00
Bonanza	C35-G35	96115-01	All	$331.00
Duke	60, A60, B60	94011-04	All	$137.65
Queen Air	65, A65, 65/80, 65/88, 65-A80, 65-B80, 70	94110-40	All	$94.75
Duchess	76	94011-02(2)	All	$119.75
		94011-20(2)	All	$133.75
Travel Air	95, B95, A, D95A, E95	94150-40	All	$118.85

Note: (1) Denotes 1ea. per engine. (2) Denotes 2 ea. per engine. All others require 4 engine

GULFSTREAM

Aircraft		P/N	Engine	Price
Common Name	Model			
	111	94011-02(02)	All	$119.75
		94011-20(02)	All	$133.75
	112, B, T, TC, TCA	94011-02(02)	All	$119.75
		94011-20(02)	All	$133.75
Twin Commanders	500	94110-01	All	$134.75
	500A	94110-40	All	$94.75
	560A, E, F	94110-40	All	$94.75
	680, E, F, FL, FLP	94110-40	All	$94.75
	685	94001-01	All	$242.95
	720	94110-40	All	$94.75
Cougar	GA-7	94011-20	All	$133.75
Tiger	AA5B	94011-20	All	$133.75

Note: (1) Denotes 1ea. per engine. (2) Denotes 2 ea. per engine. All others require 4 engine ** AIRCRAFT SERIAL NUMBERS*

VANS

Aircraft		P/N	Engine	Price
Common Name	Model			
	RV-3	94011-20	All	$133.75
	RV-4	94011-20	All	$133.75
	RV-6	94011-20	All	$133.75

CIRRUS DESIGN

Aircraft		P/N	Engine	Price
Common Name	Model			
Cirrus	SR20 - PMA Approved	96355-01	All	$329.00
Cirrus	SR22- PMA Approved	96301-01	All	$363.00

CESSNA

Aircraft		P/N	Engine	Price
Common Name	Model			
	152, 152A	94150-40	All	$118.85
Skyhawk	172I, J, K, L, M, N, P	94011-20	All	$133.75
Skyhawk / Cutlass	172RG, Q, R, S	J-9613-72HA	All	$174.75
	P172D	94110-40	All	$94.75
	R172E	94017-01	All	$195.50
Skylark	175, A, B, C	94110-40	All	$94.75
Cardinal	177, A, B	94011-20	All	$133.75
	180, A thru H	94110-40	All	$94.75
Skylane	182, A thru R	94110-40	All	$94.75
	R182, TR182, T182	94011-02	All	$119.75
Skylane	182S, T	J-9613-82HA	All	$204.95
Skywagon	185, A thru F, A185F	94110-40	All	$94.75
	188	94110-40	All	$94.75
Stationair	206, U206, A thru G, P206,A thru E	94030-01	All	$135.75
		94031-01	All	$144.75
Stationair	206H, T206H	J-15195-4HA	All	$358.00
	TP206, A thru E, TU206, A thru G	94030-01	All	$135.75
		94031-01	All	$144.75
	207, A, T207, T207A	94030-01	All	$135.75
		94031-01	All	$144.75
Yates Aircraft Conversion	A188B	94007-01	All	$326.00
Centurion	210, A thru C 210, D thru H, J	94110-40	All	$94.75
		94030-01 (2)	All	$135.75
		94031-01 (2)	All	$144.75
Centurion	210K thru N	94030-01 (2)	All	$135.75
		94031-01 (1)	All	$144.75
		94031-02 (1)	All	$267.95
Turbo Centurion	T210F thru H	94030-01 (2)	All	$135.75
		94031-01 (1)	All	$144.75
		94031-02 (1)	All	$267.95
Turbo Centurion	T210J thru N	94030-01 (2)	All	$135.75
		94031-01 (1)	All	$144.75
		94031-02 (1)	All	$267.95
Pressurized Centurion	P210N, R	94030-01 (2)	All	$135.75
		94021-01 (1)	All	$264.95
		94021-02 (1)	All	$397.00

CESSNA TWIN ENGINE

Aircraft		P/N	Engine	Price
Common Name	Model			
	310B, C	94110-40	All	$94.75
Skynight	320, A thru C	94016-03	All	$169.85
	320D, E, F	94006-01	All	$172.75
	ALT.	94017-01	All	$195.50
Skymaster	336	94016-01	All	$210.95
	337, A thru F	94017-01	All	$195.50
	P337H	94017-01	All	$195.50
	T337, B thru F	94017-01	All	$195.50
	340, A	94006-01	All	$172.75
	401, A, B	94006-01	All	$172.75
Business Liner	402, A thru C	94006-01	All	$172.75
Titan	404	94001-01	All	$242.95
	411, A	94001-01	All	$242.95
Chancellor	414, A	94006-01	All	$172.75
Golden Eagle	421, A thru, C	94001-01	All	$242.95

Note: (1) Denotes 1ea. per engine. (2) Denotes 2 ea. per engine. All others require 4 engine

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DEHAVILLAND

Aircraft		P/N	Engine	Price
Common Name	Model			
Beaver	DHC-2 MK1	MB100875	P&W R985	---
Otter	DHC-3	MB4040	P&W R-1340	---

PIPER

Aircraft		P/N	Engine	Price
Common Name	Model			
Cherokee 140	PA28-140	94150-01	*20002-24999	$87.75
	PA28-140	94011-02 (2)	*25000-7125641	$119.75
		94011-20 (2)	*25000-7125641	$133.75
	PA28-140	94011-02 (2)	*7225001 & UP	$119.75
		94011-20 (2)	*7225001 & UP	$133.75
Cherokee 150	PA28-150	94150-01	All	$87.75
Cherokee 160	PA28-160	94150-01	All	$87.75
Warrior	PA28-151	94011-02 (2)	0-320-E3-D	$119.75
		94011-20 (2)	All	$133.75
Warrior	PA28-161	94011-02 (2)	All	$119.75
		94011-20 (2)	All	$133.75
Cherokee180	PA28-180	94150-01	*1761-4377	$87.75
	PA28-180	94150-01	*4378-5149	$87.75
Cherokee Six	PA32-300	94110-02	*32-7240056 & UP	$139.75
Archer	PA28-180	94011-20	*5151 & UP	$133.75
Archer II	PA28-181	94011-20	All	$133.75
Arrow	PA28R-180	94011-20	*3000 & UP	$133.75
	PA28R-200	94011-20	*35001-7135329 IO-360-C1C	$133.75
Arrow II	PA28R-200	94011-20	*7235001 & UP	$133.75
Turbo Arrow II	PA28R-201T	94006-01	TSIO-360-F, FB	$172.75
Arrow III	PA28R-201	94011-20	*7737002 & UP	$133.75
Turbo Arrow III	PA28R-201T	94006-01	All	$172.75
Dakota	PA28-236	94011-02	*0-540-J3A5D	$119.75
Comanche 250	PA25-250	94110-01	0-540-A1A	$134.75
Comanche 260	PA24-260	94110-01	IO-540-E or D4A5	$134.75
Comanche 400	PA24-400	94011-04	IO-720	$137.65
Cherokee Lance	PA32R-300	94110-02	IO-540-K1G5D	$139.75
Lance II	PA32RT-300	94110-02	IO-540-K1G5	$139.75
Saratoga	PA32-301	94011-02 (2)	All	$119.75
		94011-03 (2)	All	$126.75
Saratoga S.P	PA32R-301	94011-02 (2)	All	$119.75
		94011-03 (2)	All	$126.75
Tomahawk	PA38-112	94150-01	0-235	$87.75
Brave	PA36-300	94110-02	All	$139.75
Pawnee 235	PA25-235	94110-01	All	$134.75
Pawnee 260	PA25-260	94110-01	All	$134.75

PIPER TWIN ENGINE

Aircraft		P/N	Engine	Price
Common Name	Model			
Apache 235	PA23-235	94110-01	0-540-B1A5	$134.75
Aztec	PA23-250	94110-01	0-540, IO-540	$134.75
Aztec C, F	PA23-250	94011-02	IO-540-C4B5, CIB5	$119.75
Twin Comanche	PA30	94011-03	All	$126.75
	PA39	94011-03	All	$126.75
Turbo Navajo	PA31	94011-02	All	$119.75
Navajo C/R	PA31-325	94011-02	TIO-540-F2BD(L)	$119.75
Navajo Chieftain	PA31-350	94011-02	TIO-540-J2BD(L)	$119.75
Seneca	PA34-200	94011-20	All	$133.75
Seneca II	PA34-200T	94006-01	All	$172.75
Seneca III	PA34-220T	94006-01	All	$172.75
Seminole	PA44-180	94011-20	All	$133.75
Turbo Seminole	PA44-180T	94011-20	All	$133.75
Aerostar	PA60-700P	94011-40	All	$373.00
	PA60-600, 601	94011-01	All	$153.75
	PA60-601P,602P	94011-01	All	$153.75

Note: (1) Denotes 1ea. per engine. (2) Denotes 2 ea. per engine. All others require 4 engine * AIRCRAFT SERIAL NUMBERS

PILATUS PC-12

Compatible Aircraft: PC-12. PC-12/45. PC-12/47. PC-12/47E

Description	Part No.	Price
New	08-15950	**$2,128.00**
Rebuilt	08-15950-1	**$1,432.00**

MAULE

Aircraft		P/N	Engine	Price
Common Name	Model			
Rocket	M-4-210, C, S, T	94016-01		$210.95
	M-5-210C	94016-01		$210.95
	M-5-235, C	94016-02		$174.75
	M-6-235	94016-02		$174.75
Orion/Super Rocket	M-7-235/260, M-8-235	94016-02	0-540-J/10-540-J	$174.75

MOONEY

Aircraft		P/N	Engine	Price
Common Name	Model			
PFM	M20L	95167-01	Porsche	$958.00
Chaparral	M20E 1964 Only	94150-01	0-360-A1A	$87.75
Chaparral(Super 21)	M20E 1965 & Newer	94011-02	IO-360-A1A	$119.75
Executive	M20F	94011-02	IO-360-A1A	$119.75
201	M20J	94011-20		$133.75
231	M20K	94006-01	TSIO-360	$172.75
	CAP231	94016-44	ALL	$458.00
	M20A	94150-40	0-360-A1A, D	$118.85
	M20A	94150-01	0-360-A1A	$87.75
Master	M20D	94150-40	0-360-A1D, A2D	$118.85
Ranger	M20B	94150-40	0-360-A1A, D	$118.85
Ranger Mark 21	M20C	94150-40	0-360-A1A,D	$118.85
Statesmen	M20G	94150-40	IO-360-A1D	$118.85

LANCAIR

Aircraft		P/N	Engine	Price
Common Name	Model			
Lancair	235	94150-41	0-235	$138.75
Lancair	320	94150-41	0-320	$138.75
Lancair	360	94150-41	0-320, 0-360	$138.75
Lancair	4	94001-01, (2)	TIO-550, TIO-520	$242.95
		94011-20, (2)	TIO-550, TIO-520	$133.75
Lancair	ES	94017-01	All	$195.50
Columbia	300	94001-01	IO-550	$242.95

Note: (1) Denotes 1ea. per engine. (2) Denotes 2 ea. per engine. All others require 4 engine

SIAI MARCHETTI

Aircraft		P/N	Engine	Price
Common Name	Model			
	F260	94110-01	All	$134.75
	S208	94110-01	All	$134.75

SOCATA

Aircraft		P/N	Engine	Price
Common Name	Model			
Rallye	235C, E	94011-20	0-540-B4B5	$133.75

PRATT & WHITNEY TURBO PROPS

Aircraft		P/N	Engine	Price
Common Name	Model			
P&W Turbo Prop	5906-25A5	08-10679	PT-6	$1,023.00

REBUILT ENGINE MOUNT FOR PT-6

This engine vibration isolator assembly(engine mount) is for a variety of PT6 turbo-prop powered aircraft. Rebuilt. P/N 08-10679 .**$1,023.00**

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LORD ENGINE MOUNTS

LORD ELASTOMERIC ENGINE MOUNTS

These compression type couplings consist of bonded rubber joints pressed into the sockets of metal hubs. These dynafocal engine suspensions provide proper flexible support to isolate engine vibrations and reduce noise transmission to airframe structure in all aircraft applications. Careful design assures maximum strength to hold the engine under ultimate load and emergency conditions. Suspensions also distribute loads in most desirable patterns, control engine motions, accommodate thermal expansion and manufacturers' tolerances.

PROMPT SHIPPING GUARANTEED! IF YOU REQUIRE UNLISTED LORD MOUNTS, PLEASE CALL US FOR YOUR BEST PRICE.
WE BEAT ALL COMPETITOR'S PRICES! LET US KNOW OF ANY LOWER PRICE AND WE WILL BEAT IT!

Aircraft Model	Application/ Engine	No. per A/C	Part No.	Price Each
AVIAT				
A-1	Lyc. O-360-C1G/A1P	8	J-1552	**$54.85**
S-1	Lyc. O-320	8	J-7401-2	**$59.75**
S-1S, -2A	Lyc. O-360-B4A, A1P	8	J-7401-2	**$59.75**
BEECHCRAFT				
19	Lyc. O-320-E2C	4	J-7402-16	**$121.75**
B19, M19A	Lyc. O-320-E2D	4	J-7402-16	**$121.75**
23	Lyc. O-360-A4G	4	J-7402-16	**$121.75**
23	Cont. IO-346-A	4	J-10778-4	**$415.00**
A23-24	Lyc. IO-360-A2B	4	J-10778-4	**$415.00**
C-23	Lyc. O-360-A4K	4	J-7402-16	**$121.75**
24,A24,A24R,B24R	Lyc. IO-360-A2B	2 ea*	J-10778-14	**$472.00**
C-24R	Lyc IO-360-A1B6	2 ea*	J-10778-16	**$276.95**
B33, C33	Cont. IO-470-K	4	J-7518-2	**$176.75**
C33A	Cont. IO-520-B	4	J-10520-1	**$196.75**
E33, F33	Cont. IO-470-K	4	J-7518-2	**$176.75**
E33A/C, F33A/C	Cont. IO-520-BB	4	J-10520-1	**$196.75**
G33	Cont. IO-470-N	4	J-10520-1	**$196.75**
35, A35, B35	Cont. E185-8	8	J-2245-1	**$141.75**
C35, D35, E35, F35	Cont. E185-11	4	J-3804-26	**$183.75**
E35, F35, G35	Cont. E225-8	4	J-3804-26	**$183.75**
H35	Cont. O-470-G	4	J-7518-2	**$176.75**
J35, K35, M35	Cont. IO470-C	4	J-7518-2	**$176.75**
N35, P35	Cont. IO-470-N or-C	4	J-7518-2	**$176.75**
S35,T35,V35,V35A,B	Cont. IO-520-BB	4	J-10520-1	**$196.75**
36, A-36	Cont. IO-520-BB	4	J-10520-1	**$196.75**
A36TC	Cont. TSIO-520-UB	4	J-10520-1	**$196.75**
V35A-TC	Cont. TSIO-520-D	4	J-10520-1	**$196.75**
B50	Lyc. GO-435-C2/C2E	8	J-3804-10	**$239.95**
C50	Lyc. GO-480-F1A6	8	J-3804-10	**$239.95**
D50, D50B/C/E	Lyc. GO-480-G2F6	4	J-3804-10	**$239.95**
E50, F50, G50, H50 G50, G50, J50	Lyc. GSO-480-B1B6 Lyc. IGSO-480-A1B6	4 4	J-6545-1	**$135.75**
55, A55, B55	Cont. IO-470-L	8	J-7518-2	**$176.75**
55, A55, B55, B55A	Cont. IO-470-L	8	J-9613-5	**$327.00**
C55(1967), D55,				
D55A,E55,E55A	Cont. IO-520-CB	8	J-10778-16	**$276.95**
56TC, A56TC	Lyc. TIO-541-EIB4	8	J-9613-9	**$262.95**
58	Cont. IO-520-CB	8	J-10778-16	**$276.95**
58 (1984-on)	Cont. IO-550-C	8	J-10778-16	**$276.95**
58P	Cont. TSIO-520-L/-LB	8	J-12453-12	**$200.75**
58P	Cont. TSIO-520-WB	8	J-12453-12	**$200.75**
58TC	Cont. TSIO-520-L/-LB	8	J-12453-12	**$200.75**
58TC	Cont. TSIO-520-WB	8	J-12453-12	**$200.75**
60, B60	Lyc. TIO-541-EIC4	8	J-9613-9	**$262.95**
65, A65, 70	Lyc. IGSO-480-AIE6	4	J-6545-1	**$135.75**
		4	J-6545-1	**$135.75**
76TC	Lyc. TO-360-CIA6D	2 ea*	J-9613-49	**$181.75**
76	Lyc. O-360-AIG6D	2 ea*	J-9613-50	**$161.75**
77	Lyc. O-235-L2C	4	J-7402-1	**$116.75**
80, A80, B80, 88	Lyc. IGSO-540-AID	4	J-6545-1	**$135.75**
		4	J-6545-1	**$135.75**
C90, C90A	PWC PT6A-21	6	LM427SA7	**$2,026.00**
E90, F90	PWC PT6A-28,-135,-135A	6	LM427SA7	**$2,026.00**
H90	PWC PT6A-34B	6	LM427SA7	**$2,026.00**
95, 95A, 95B	Lyc. IO-360-B1B	8	J-7402-1	**$116.75**
D95A, E95	Lyc. IO-360-B1B	8	J-7402-1	**$116.75**
A100	PWC PT6A-28	6	LM427SA7	**$2,026.00**
B100	GA TPE331-6-252B	4&2*	LM821SA49	**$3,456.00**
			LM821SA50	**$3,456.00**
200, 200C, 200CT	PWC PT6A-41	8	LM427SA7	**$2,026.00**
A200/C/CT	PWC PT6A-41	8	LM427SA7	**$2,026.00**
B200	PWC PT6A-42	8	LM427SA7	**$2,026.00**
C90,E90,C99,200/C /CT, A200/C/CT, B200/C/CT/T	Overhaul kit for Barry Controls P/N5906-2SA5	8	LM427SA12	**$358.00**

Aircraft Model	Application/ Engine	No. per A/C	Part No.	Price Each
BELLANCA				
17-31, 17-31A	Lyc. IO-540-K	4	J-9868-5	**$258.95**
17-31A	Lyc. IO-540-KIE5	4	J-9868-5	**$258.95**
17-31TC,17-31ATC	Lyc. IO540-G, K	4	J-9868-5	**$258.95**
7ACA	Franklin 2A-120A, B	8	J-3608-1	**$19.85**
7ECA	Cont. O-200-A	8	J-3608-1	**$19.85**
7ECA	Lyc. O-235-C1	4	J-6230-1	**$156.85**
7GCAA, 7GCBC	Lyc. O-320-A2B	4	J-6230-1	**$156.85**
7GCAA, 7GCBC	Lyc. O-320-A2D	4	J-6230-1	**$156.85**
7KCAB	Lyc. O-320-E2A	4	J-6230-1	**$156.85**
7KCA	Franklin 2A-120A, B	8	J-3608-1	**$19.85**
8GCBC-CS	Lyc. O-360-C1E	4	J-6230-1	**$156.85**
8GCBC-FP	Lyc. O-360-C2E	4	J-6230-1	**$156.85**
8GCBC	Lyc. O-360-C2E	4	J-6230-1	**$156.85**
8KCAB	Lyc.IO-320-E1A	4	J-6230-1	**$156.85**
8KCAB-CS	Lyc. AEIO-320-E1B	4	J-6230-1	**$156.85**
8KCAB-FP	Lyc. AEIO-320-E2B	4	J-6230-1	**$156.85**
8KCAB-180	Lyc. AEIO-360-H1A	4	J-6230-1	**$156.85**
CESSNA				
120-140	Cont. C-85	8	J-3608-1	**$19.85**
140A	Cont. C-90	8	J-3608-1	**$19.85**
150, 150A-L	Cont. O-200-A	8	J-3608-1	**$19.85**
152, 152 Aerobat	Lyc. O-235-L2C	4	J-7402-1	**$116.75**
172 I-P	Lyc. O-320-E2D	4	J-9613-49	**$181.75**
172P	Cowl Mount	--	J-7444-14	**$21.95**
F172P	Cowl Mount	--	J-7444-14	**$21.95**
F172P	Cowl Mount	--	J-7444-24	**$33.50**
F172	Cowl Mount	--	J-7444-36	**$59.85**
172	Lyc. O-320-D2J	4	J-9613-49	**$181.75**
172N	Lyc. O-320-H2AD	4	J-9613-49	**$181.75**
172	Cont. IO-360-K	4	J-9613-42	**$157.75**
172RG	Lyc. O-360-A1F6	2 ea*	J-9613-49	**$181.75**
			J-9613-72	**$253.95**
172Q	Lyc. O-360-AL/N	2 ea*	J-9613-49	**$181.75**
			J-9613-72	**$253.95**
172P,Q	Cowl Mount	--	J-7444-24	**$33.50**
172	Cowl Mount	--	J-7444-36	**$59.85**
P172	Cont. GO-300-E	4	J-6545-1	**$135.75**
R172E,K	Cont. IO-360-D	4	J-9613-42	**$157.75**
175	Cont. GO-300-A	4	J-6545-1	**$135.75**
175A, B	Cont. GO-300-C, D	4	J-6545-1	**$135.75**
175C	Cont. GO-300-E	4	J-6545-1	**$135.75**
177	Lyc. O-320-E2D	4	J-9613-49	**$181.75**
177A	Lyc. O-360-A2F	4	J-9613-49	**$181.75**
177B	Lyc. O-360-A1F6D	4	J-9613-49	**$181.75**
177RG	Lyc. IO-360-A1B6	4	J-9613-59	**$269.95**
180	Cont. O-470-A, J	2 ea*	J-3804-14	**$207.95**
			J-3804-15	**$239.95**
180	Cont. O-470-K	4	J-6545-1	**$135.75**
180A-H	Cont. 0-470-K, R	4	J-6545-1	**$135.75**
180H, J	Cont. O-470-R, U	4	J-6545-1	**$135.75**
182, 182A-R	Cont. O-470-R, U	4	J-6545-1	**$135.75**
182, 182A-N	Accessory Mount	--	J-14290-4	**$38.50**
182H-N	Panel Mount	--	J-6984-64	**$14.80**
T182	Lyc. O-540-L3C5D	4	J-9613-12	**$168.75**
TR182	Lyc. O-540-L3C5D	4	J-9613-12	**$168.75**
185, 185A-E	Cont. IO-470-F	4	J-6545-1	**$135.75**
185	Cont. IO-520-D	4	J-6545-1	**$135.75**
A185F	Cont. IO-520-D	4	J-6545-1	**$135.75**
188	Cont. O-470-R	4	J-6545-1	**$135.75**
188	Cont. IO-520-D	4	J-6545-1	**$135.75**

NOTE: * indicates more than one Lord Part No. needed

EP

LORD ENGINE MOUNTS

Aircraft Model	Application / Engine	No. per A/C	Part No.	Price Ea.
CESSNA cont.				
188	Cont. IO-520-D	2 ea*	J15198-1	**$428.00**
188A, 188B	Cont. IO-520-D	2 ea*	J15198-2	**$548.00**
T188	TSIO-520T		J-6545-6	**$168.75**
205, 205A	Cont. O-360-B4A	4	J-6545-1	**$135.75**
206, 206A	Cont. IO-520A	2 ea*		
206B	Cont. IO-520F	2 ea*	J12453-1	**$200.75**
U206T	Cont. TSIO-520C	2 ea*	J12453-2	**$211.95**
U206	Cont. IO-520F	2 ea*		
U206,A,E	Panel Mount	--	J-6984-64	**$14.80**
U206G	Cont. IO-520-F	2 ea*		
TU206A-F	Cont. TSIO-520-C	2 ea*		
T206G	Cont. TSIO-520-M	2 ea*		
P206, P206A-E	Cont. IO-520-A	2 ea*		
P206T, P206T A-E	Cont. TSIO-520-C	2 ea*	J12453-1	**$200.75**
207, 207A	Cont. IO-520-F	2 ea*	J12453-2	**$211.95**
207A II	Cont. IO-520-F	2 ea*		
207T	Cont. TSIO-520-G	2 ea*		
T207A, T20A II	Cont. TSIO-520-M	2 ea*		
210, 210A-C	Cont. IO-470-E, S	4	J-6545-1	**$135.75**
210 D-J	Cont. IO-520-A, J	2 ea.*	J-12453-1	**$177.75**
210 K-R	Cont. IO-520-L	2 ea*	J-12453-2	**$211.95**
210 K, L	Panel Mount	--	J-6984-64	**$14.80**
T210M, N	Cont. TSIO-520-R	2/1/1*		
T210 F-L	Cont. TSIO-520-C, H	2 ea.*	J-12453-1	**$177.75**
P210M, N	Cont. TSIO-520-AF, P	2/1/1*	J-12453-2	**$211.95**
P210N, R		4/2	J-12453-6	**$408.00**
T210R (1985-86)	Cont. TSIO-520-CE	4/2*		
P210 R (1985-86)	Cont. TSIO-520-CE	4/2*		
310B	Cont. O-470-M	8	J-6545-1	**$135.75**
310C-H	Cont. IO-470-D	8	J-12390-1	**$198.75**
310JQ	Cont. IO-470-U, V, VO	8	J-12390-1	**$198.75**
310R	Cont. IO-520-M, MB	8	J-9613-58	**$259.95**
T310 P, Q, R	Cont. TSIO-520-B, BB	8	J-9613-58	**$259.95**
320 D-F	Cont. TSIO-520-B, BB	8	J-9613-58	**$259.95**
337, 337A-H	Cont. IO-360-C, D, G	8	J-9613-31	**$252.00**
T337B-G	Cont. TSIO-360-A, H	8	J-9613-31	**$252.00**
P337H	Cont. TSIO-360-C, CB	8	J-9613-31	**$252.00**
340	Cont. TSIO-520-K, KB	8	J-9613-58	**$259.95**
340A	Cont. TSIO-520-NB	8	J-9613-58	**$259.95**
401, 401A,B	Cont. TSIO-520-E, EB	8	J-9613-58	**$259.95**
402, 402A,B	Cont. TSIO-520-E, EB	8	J-9613-58	**$259.95**
402C	Cont. TSIO-520-VB	8	J-9613-58	**$259.95**
404	Cont. GTSIO-520-M	8	J-9613-54	**$258.95**
411, 411A	Cont. GTSIO-520-C	8	J-9613-54	**$258.95**
414, 414A	Cont. TSIO-520-J, NB	8	J-9613-58	**$259.95**
421, A, B	Cont. GTSIO-520-D, H	8	J-9613-54	**$258.95**
421C	Cont. GTSIO-520-L, N	8	J-9613-54	**$258.95**
COMMANDER AIRCRAFT CO.				
112, 112B	Lyc. O-360-C1D6	2 ea.*	J-9613-40	**$170.75**
112T, TCA	Lyc. IO-360-C1A6D	2 ea.*	J-9613-53	**$172.75**
114	Lyc. IO-540-T4A5D	4	J-3804-28	**$263.95**
GRUMMAN AMERICAN				
AA-1	Lyc. O-235-C2C	8	J-6113-5	**$61.75**
AA-1A, B	Lyc. O-235-C2C	8	J-6113-5	**$61.75**
AA-1C (Tomcat)	Lyc. O-235-L2C	4	J-7402-24	**$137.75**
AA-1C (Lynx)	Lyc. O-235-L2C	4	J-7402-24	**$137.75**
AA-5	Lyc. O-320-32G	4	J-7402-24	**$137.75**
AA-5A	Lyc. O-320-32G	4	J-7402-24	**$137.75**
AA-5B (S/N 1-399)	Lyc. O-360-A4K	4	J-9613-49	**$181.75**
AA-5B, AG-5B	Lyc. O-360-A4K	4	J-9613-59	**$269.95**
MOONEY AIRCRAFT				
M20	Lyc. O-320	4	J-6230-1	**$156.85**
M20A (1958-1960)	Lyc. O-360	4	J-7402-16	**$121.75**
M20B (S/N1701-1939)	Lyc. O-360-A1D	4	J-7402-1	**$116.75**
M20C(S/N1940-20-1258)	Lyc. O-360-A1D	4	J-7402-1	**$116.75**
M20D (S/N101-260)	Lyc. O-360-A2D	4	J-7402-1	**$116.75**
M20E (S/N101-470)	Lyc. O-360-A1A	4	J-7402-16	**$121.75**
M20E (1969-75)	Lyc. O-360-A1A	4	J-9613-12	**$168.75**
M20F (1966-77)	Lyc. O-360-A1A	4	J-9613-12	**$168.75**
M20G (1968-70)	Lyc. O-360-A1D	4	J-7402-1	**$116.75**
M22 (1966-70)	Lyc. TIO-541-A1A	4	J-10520-1	**$196.75**
M20J (1976-up)	Lyc. IO-360-A3B6D	4	J-9613-40	**$170.75**
M20K (1979-85)	Cont. TSIO-360-GB1	4	J-9613-58	**$259.95**
M20K (1979-85)	Cont. TSIO-360-GB3	1/3*	J-9613-75	**$490.00**
M20K (1979-85)	Cont. TSIO-360-GB4	1/3*	and	
M20K (1979-85)	Cont. TSIO-360-LB1B	1/3*	J-9613-76	**$413.00**
M20K (1986-up)	Cont. TSIO-360-MB1	1/3*		
NAVION AIRCRAFT				
G, H	Cont. IO-470-H or IO-520-B	4	J-7518-4	**$373.00**
PIPER				
PA-23	Lyc. O-320-D2	8	J-6230-1	**$156.85**
PA-23-160	Lyc. 0-320-B	8	J-6230-1	**$156.85**
PA-23-235	Lyc. OI-540-B1A5	8	J-3804-20	**$178.75**
PA-23-250	Lyc. O-540-A1B5, A1D5	8	J-3804-20	**$178.75**
PA-23-250 (6)	Lyc. IO-540-C1B5, A1D5	8	J-3804-20	**$178.75**
PA-23-250 (6)	Lyc. IO-540-C4B5	8	J-9613-12	**$168.75**
PA-23-250 (6)	Lyc. IO-540-J4A5	8	J-9613-12	**$168.75**
PA-23-250	Lyc. IO-540-C4B5	8	J-9613-12	**$168.75**
PA-23-250T	Lyc. TIO-540-C1A	8	J-9613-12	**$168.75**
PA-24-250	Lyc. O-540-C1B5, A1A	4	J-3804-20	**$178.75**
PA-24-260	Lyc. IO-540-E4A5, D4A5	4	J-3804-20	**$178.75**
PA-24-400	Lyc. IO-720-A1A, A1B	2 ea.	J-9613-9	**$262.95**
PA-25-235	Lyc. O-540-B2C5,B2B5	4	J-3804-20	**$178.75**
PA-25-260	Lyc. O-540-E4	4	J-3804-20	**$178.75**
PA-28-140	Lyc. O-320-E2A	4	J-7402-16	**$121.75**
PA-28-140	Lyc. O-320-E2A	2	J-9613-40	**$170.75**
PA-28-140	Lyc. O-320-E3D	2 ea.*	J-9613-40 J-9613-53	**$170.75** **$172.75**
PA-28-150	Lyc. O-320-A2B	4	J-7402-16	**$121.75**
PA-28-150	Lyc. O-320-A2B*	4	J-7402-24	**$137.75**
PA-28-150	Lyc. O-320-E2A	4	J-7402-16	**$121.75**
PA-28-151	Lyc. O-320-E3D	2 ea.*	J-9613-40 J-9613-53	**$170.75** **$172.75**
PA-28-160	Lyc. O-320-B2B	4	J-7402-16	**$121.75**
PA-28-160	Lyc. O-320-D2A**	4	J-7402-16	**$121.75**
PA-28-160	Lyc. O-320-D2A	4	J-7402-24	**$137.75**
PA-28-161	Lyc. O-320-D3G	2 ea.*	J-9613-40 J-9613-53	**$170.75** **$172.75**
PA-28-180	Lyc. O-360-A3A	4	J-7402-24	**$137.75**
PA-28-180	Lyc. O-360-A4A	4	J-7402-24	**$137.75**
PA-28-180	Lyc. O-360-A4A, M***	4	J-9613-40	**$170.75**
PA-28R-180	Lyc. O-360-B1E	4	J-9613-40	**$170.75**
PA-28-181	Lyc. O-360-A4M	4	J-9613-40	**$170.75**
PA-28R-200	Lyc. IO-360-C1C	4	J-9613-40	**$170.75**
PA-28R-201	Lyc. IO-360-C1C, C1C6	4	J-9613-40	**$170.75**
PA-28R-201T	Cont. TSIO-360-F, FB	4	J-9613-58	**$259.95**
PA-28-235	Lyc. O-540-B2B5	4	J-3804-20	**$178.75**
PA-28-235	Lyc. O-540-B1B5	4	J-7402-20	**$142.75**
PA-28-235	Lyc. O-540-B4B5	4	J-7402-20	**$142.75**
PA-28-235	Lyc. O-540-B4B5****	4	J-3804-27	**$174.75**
PA-28-236	Lyc. O-540-J3A5D	4	J-9613-12	**$168.75**
PA-30	Lyc. IO-320-B1A1C1A	8	J-9613-19	**$178.75**
PA-31	Lyc. TIO-540-A1A, or A1B, A2C, A2B	8	J-9613-12	**$168.75**
PA-31-310	Lyc. TIO-540-A2C	8	J-9613-12	**$168.75**
PA-31-325	Lyc. L/ TIO-540-F2BD	8	J-9613-12	**$168.75**
PA-31-350	Lyc. L/ TIO-540-J2BD	8	J-9613-29	**$169.95**
PA-31P-350	Lyc. TIO-540-V2AD	--	J-9613-53	**$172.75**
PA-31T-1, -500	PWC PT6A-11	6	LM-423-SA1	**$889.00**
PA-31T-620	PWC PT6A-28, 135	4	LM-423-SA1	**$889.00**
PA-31T-620XL,-31T2		2	LM-423-SAI2	**$806.50**
PA-32-260	Lyc. O-540-E4B5	4	J-7402-20	**$142.75**
PA-32-260 (s/n 570-up)	Lyc. O-540-E4B5	4	J-3804-27	**$174.75**
PA-32-300	Lyc. IO-540-K1A5	4	J-3804-27	**$174.75**
PA-32-300	Lyc. IO-540-K1G5, K1A5	4	J-3804-40	**$167.75**
PA-32R-300	Lyc. IO-540-K1G5D	4	J-3804-31	**$237.95**
PA-32R-300 (s/n 141-up)	Lyc. IO-540-K1G5D	4	J-3804-40	**$167.75**
PA-32RT-300	Lyc. IO-540-K1G5	2 ea.	J-3804-40	**$167.75**
PA-32RT-300T	Lyc. TIO-540-51AD	2 ea.	J-3804-37& J-3804-39	**$226.95** **$422.00**
PA-32-301	Lyc. IO-540-K1G5D	2 ea.	J-9613-19 &	**$178.75**
PA-32R-301	Lyc. IO-540-K1G5D	2 ea.	J-9613-12	**$168.75**
PA-32-301T	Lyc. TIO-540-S1AD	2 ea.	J-9613-19 &	**$178.75**
PA-32R-301T	Lyc. TIO-540-S1AD	2 ea.	J-9613-55	**$311.00**
PA-34-200	Lyc. L/ IO-360-C1E6	8	J-9613-40	**$170.75**
PA-34-200, 200T	Cont. TSIO-360-E, EB	8	J-9613-58	**$259.95**
PA-34-220T	Cont. L/ TSIO-360-KB	4	J-9613-58	**$259.95**
PA-36-285	Cont. 6-285	4	J-14090-7	**$499.50**
PA-36-300	Lyc. IO-540-K1G5	4	J-3804-31	**$237.95**
PA-38-112	Lyc. O-235L2C	4	J-7402-16	**$121.75**
PA39	Lyc. IO-320-B1AC1A	8	J-9613-19	**$178.75**
PA-44-180	Lyc. 0-360-E1A6D	8	J-9613-40	**$170.75**
PA-44-180T	Lyc. T0-360-E1A6D	8	J-9613-40	**$170.75**
PA-46-310P	Cont. TSIO-520-BE	4	J-9613-55	**$311.00**
PA-46-350P	Lyc. TIO-540-AE2A	8	J-9613-55	**$311.00**
PA-60-360	Lyc. IO-360-E1A	8	J-9613-12	**$178.75**
PA-60-600A	Lyc. IO-540-K1F5	8	J-9613-9	**$262.95**
PA-60-600B	Lyc. IO-540S1A5	8	J-9613-9	**$262.95**
PA-60-601P	Lyc. IO-540S1A5	8	J-9613-9	**$262.95**

NOTE: * indicates more than one Lord Part No. needed

LOCKING TAB WASHER - Used to lock mounting bolts to Lord Mounts. This Continental P/N 501867 is similar to Cessna P/N 08-51559-1.
P/N 08-50186-7 ....**$1.32 ea.**

COWL MOUNTS

Cessna 172P and F172P Per supp 86 & 13.3....P/N J-7444-14 ... **$21.95**
Cessna 172P, F172P, and 172Q Per supp 86 & 13.3
P/N J-7444-24 ... **$33.50**
Cessna 172 Per supp 13.3.................................P/N J-7444-36 ... **$59.85**

EP

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice

DYNAFOCAL ENGINE MOUNT

RINGS & KITS

Standard rings furnished with 2-3/4" I.D. retainers, completely welded, ready for mount assembly. The Dynafocal ring kits contain all tubing cut and bent, with 2-3/4" I.D. retainers, ready to weld.

Dynafocal Ring for Lyc. 0-235 to I0-360 (200 HP)..P/N 33521 ..**$197.75**
Dynafocal Ring for Lycoming 0-320B.......................... P/N 33521-B **$299.95**
Dynafocal Ring Kit for Lyc. 0-235 to I0-360 (200 HP) . P/N 33522....**$219.00**
Retainer Cups & Rings Kit .... P/N 33253....**$148.90**
(includes 8 cups & 4 rings - everything in #33522 kit above except the tubing)

VIP ENGINE MOUNTS FOR EXPERIMENTAL AIRCRAFT

Spruce P/N	Lord Equiv.	Barry Equiv	Price ea.
08-00774	J9613-49	94110-20	**$88.75**

SANDWICH MOUNTS FOR HOMEBUILT AIRCRAFT

Sandwich assemblies of natural rubber and specially blended synthetic compounds bonded to 2 metal plates. Normal installation requires 4 assemblies, each consisting of 2 sandwich mountings and 1 spacer. Satisfactory performance requires that the spacer be designed to the correct length to precompress each mounting to guarantee proper positioning of the mountings. Set consists of eight bonded sandwich mountings equivalent to Lord Mount No. J-7402-5 (2" Dia.) and four 4130 steel spacers with mounted rubber shoulder. Use with dynafocal engine mount rings using 2-3/4" I.D. retainer cups. Used on many homebuilts including the Defiant and Long-EZ ......P/N 08-03500 ....**$449.00**

SPECIAL HEAVY DUTY MOUNT SETS

Designed for use on aerobatic aircraft such as Christen Eagle and Acro.

Same style as homebuilt type but inner core has been "beefed up" and elastomers added to encapsulate the spacer. 2-inch diameter. Includes a set of 8 Mounts and 4 spacers to make one complete engine set of 4.

Note: Mounting hole is 7/16" and requires AN7 bolts for installation.

50401-300 w/4 Spacers ....P/N 08-03600 ....**$247.00**

DISCOUNT: LESS 10% ON 6 SETS, 15% ON 10 SETS, 20% ON 20 SETS

LORD MOUNTS FOR COZY ENGINE MOUNT

These Lord J-7402-24 mounts fit the engine mount for Lyc. 0-360 manufactured by CG Parts.

P/N 07-01115 ....**$137.75**

SKYBOLT PLATEMOUNTS

The SK2003A Series Mounts were specifically designed around the latest generation Cessna/Lord J7444-42 Series Mount. The SK2003-14A, -24A, and -42A all have the same flex feature as the J7444-42. They look and install exactly the same as the Cessna/Lord part it replaces using the same fastener length. The SK2003-14A, -24A, and -42A are fixed depth, Non-Adjustable Platemounts. The 50ADJ is adjustable and can be adjusted without removing the cowling for an exact fit.

Model	Application	Part No.	Price
SK2003-14A	Cessna PN J7444-14. Used On - 67-On C150 (10ea), 67-86 C172 (11ea), C172XP (13ea) 68-78 C177 (14ea)	08-07222	**$19.75**
SK2003-24A	Cessna PN J7444-24. Used On - 73-86 C182 (14ea)	08-07223	**$22.50**
SK2003-42A	Cessna PN J7444-36 and -42. Used on -97, C172 R & S (14ea)	08-07208	**$31.50**

SMALL URETHANE EAR STYLE ENGINE MOUNT BUSHINGS

These engine mount bushings are made of a special urethane formula which outlasts most other mounts. They have been in use on O-540, IO-540 and TI-540 series engines for years, and are now available to the experimental aircraft market. Includes two bushings, one spacer and two washers. Specifications: These small ear type bushings are applicable to the following engine models:
O-540-A1A, -A1A5, -A1B5, -A1C5, -A1D, -A1D5, -A2B, -A3D5, -B1A5, -B1B5, -B2B5, -B2C5, -B4B5, -C1B5, -E4A5, -E4B5, -E4C5, -G1A5, G2A5, -F1A5, -F1B5
IO-540-A1A5, -B1A, -B1A5, B1C5, -C1B5, C4C5, -D4A5, -E1A, -E1A5, -E1B5, -E4A5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -D4A5, -K1A5, -K1A5D, -K1B5, -K1C5, -K1d5, -K1E5, -K1F5, -K1G5, -K1G5D, -K1J5D, -T4A5D, -T4B5D, -N1A5, -R1A5, -S1A5, -C4D5D
TIO-540-A2C, -S1AD P/N 08-07393 ....**$49.95**

BARRY MOUNT FOR VANS AEROBATIC AIRCRAFT

Barry Controls is a manufacturer of many aircraft engine mounts of both experimental and certified types. They also manufacture engine mounts for experimental and kit airplanes of various makes and models. Please call or visit our website for application information.

P/N 94016-08...........................**$437.95**

HOMEBUILDERS CONICAL LYCOMING ENGINE MOUNT BUSHINGS

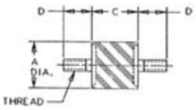
These new bushings offer superior damping qualities and do not harden over time as original mounts can do. They are molded from hi-tech silicone rubber which offering a much lower compression set which reduces engine sagging over time. Silicone also withstands a very wide temperature range and is compatible with grease and oil. These mounts are not PMA'd or FAA approved and are for use on experimental aircraft only. Not an approved replacement for Lycoming 71032 bushings. Sold in set of 8 bushings.

P/N 08-00662 ....**$42.80 /Set**

LORD ENGINE MOUNTS FOR ULTRALIGHTS

All altitude mounts for vibration isolation and shock prevention in all directions. Available in soft, medium, or hard rubber.
Soft ....P/N 08-07049 ....**$24.50**
Medium ....P/N 08-01013 ....**$22.99**
Hard ....P/N 08-07050 ....**$17.55**
Snubbing Washer ....P/N 9810145-01804 ......**$1.42**

LORD RUBBER ENGINE MOUNT



LORD Flex-Bolt™ Sandwich Mounts are designed to protect equipment and machinery against damaging vibration. These mounts provide high load-carrying capacity and assure long life. Provide lowcost mounting systems which are compact, lightweight, easy to install and maintenance-free.

Model	A	C	D	Thread	Part No.	Price
J-4624-45	1.00	.75	.75	5/16-18	10-01557	**$9.95**
J-4624-57	1.00	.75	.62	5/16-18	08-07196	**$7.95**

LORD PLATEFORM MOUNT

Lord Plateform Mounts provide effective isolation against vibration. The contour of the flexing element was developed to provide uniform stress distribution. This, plus high strength bonding and the use of specially compounded elastomers, provides maximum service life.

150 Steel Square 30 lb........................P/N 15-05391 ....**$17.90**
200 Steel Holder 45 lb.........................P/N 15-05499 ....**$85.80**

URETHANE CONE STYLE ENGINE MOUNT BUSHINGS

These engine mount bushings are made of a special urethane formula which outlasts most other mounts. They have been in use on smaller 4 cylinder Lycoming engines from the 0-235 series to the GO-480 series for years, and are now available to the experimental aircraft market.

Specifications: These cone type mounts are applicable to the following engine models: O-235-C1, -C1B, -C2A, -C2C, -F, -F1B, -G2A, O-290-D, -D2, -D2B, -D2C, O-340-A, O-340-B, O-320-A2A, -A2B, -A2C, -A3A, -A3B, -A3C, -B2A, -B3A, -B3B, -B3C, -E1A, -E2A, IO-320-E2A, O-435-A, -A2 GO-480-B, -B1A6, -B1B, -B1C, -B1D, -C1B6, -D1A, -F6, -F1A6, -F2A6, -F4A6, -G1A6, -G1D6, -G2D6, -G2F6, -G1H6, -G1J6.

P/N 08-07392 ....**$6.95**

STAINLESS STEEL FIREWALL PENETRATION KIT 3/4

The kit comes complete with stainless steel fabricated fitting, fire sleeve tubing, two ALL stainless steel hose clamps and a tube of fire block sealant to seal the ends from moisture and gasses. Includes installation instructions.

- Fireproof seal of the firewall for penetration of wires and cables.
- Seals out moisture and gasses.
- Easy replacement of wires and cables if necessary.
- Very clean looking installation.
- Available in three sizes.

To determine the size you need, plan where you want to run your wire and cable bundles. Use a tie strap or twist tie to bundle the wires and cables. Measure what size holes the bundle will fit through and choose the NEXT LARGER size (see installation instructions.) You need enough clearance between the bundle and stainless fitting to push the second fire sleeve into the fitting creating the fireproof, chafe proof seal.

Typical installation. Wires can be run straight out or turned back to attach on firewall reducing vibration.

There are so effective that they received an STC under Advisory Circular AC 20-135 Power plant Installation and Propulsion Systems Component Fire Protection Test Methods, Standards and Criteria.

Firewall Penetration Kit 3/4" ....P/N 09-00978 .... **$56.75**
Firewall Penetration Kit 1/2" ....P/N 09-02601 .... **$49.95**
Firewall Penetration Kit 1" ....P/N 09-00979 .... **$59.75**

EP

AEROTAR EXHAUST SYSTEMS

CESSNA 152

Model Number/Exhaust Assembly	Description	Part No.	Price
0454023-3 / 0454021-1	Riser Assembly RH AFT	08-15736	**$249.95**
0454023-4 / 0454021-1	Riser Assembly RH FWD	08-15737	**$249.95**
0454009-6 / 0454021-1	Muffler Assembly	08-15738	**$556.00**
0454010-9 / 0454021-1	Shroud Assembly (2 Piece)	08-15739	**$626.00**
0454023-2 / 0454021-1	Riser Assembly LH FWD	08-15740	**$249.95**
0454023-1 / 0454021-1	Riser Assembly LH AFT	08-15741	**$249.95**
0750161-25 / 0454021-1	Clamp	08-15742	**$41.70**
0454010-1 / 0454011-200	Shroud Assembly (2 Piece)	08-15743	**$556.00**
0454009-5 / 0454011-200	Muffler Assembly	08-15744	**$556.00**
0454002-4 / 0454011-200	Riser Assembly RH FWD	08-15745	**$249.95**
0454002-2 / 0454011-200	Riser Assembly RH AFT	08-15746	**$249.95**
0454002-11 / 0454011-200	Riser Assembly LH FWD	08-15747	**$249.95**
0454002-10 / 0454011-200	Riser Assembly LH AFT	08-15748	**$249.95**
0750161-25 / 0454011-200	Clamp	08-15749	**$41.70**

CESSNA 172

Model No.	Description	Part No.	Price
9954100-3	Shroud Assembly	08-15751	**$625.00**
9954100-9	Muffler Assembly	08-15752	**$625.00**
9954100-7	Riser RF (1754010-1)	08-15753	**$249.95**
9954100-4	Riser RR (1754007-1)	08-15754	**$249.95**
9954100-6	Riser LF (1754009-3)	08-15755	**$249.95**
9954100-5	Riser LR (1754008-3)	08-15756	**$249.95**
1555014-2	Clamp	08-15757	**$41.70**
0454013-1	Carb Heat Shroud	08-15758	**$730.00**

PIPER PA-28R (180|200|201) ARROW I / II / III / IV

Model No.	Description	Part No.	Price
67517-000	Muffler	08-15759	**$480.00**
67651-000	Shroud Assembly - 2	08-15760	**$1,528.00**
104628-002	PA-28-181 Muffler	08-15784	**$1,473.00**
99600-000	Shroud Assembly - 3	08-15761	**$834.00**
63243-002	Clamp	08-15762	**$40.85**

T TUBE CONNECTOR

Expanded on short leg to slip over a 2" O.D. tube to divert air in two directions. Especially handy for close to the firewall applications. Weight is 1.7 ounces.

P/N 08-07304 ....**$35.65**

2-1/2 INCH Y TUBE CONNECTOR

With 2" offshoot. If you are running 2.5" tubing in one area and 2" to another, this is your part. Weight is 1.8 ounces.

P/N 08-07303 ....**$36.50**

2 INCH DIAMETER Y TUBE WITH SHUT-OFF VALVE

This is a DL-010 "Y" Tube, modified with a shut-off valve in the straight run tube. The shut-off valve enables the builder to divert the flow of air from the straight tube and direct all or part of the air flow to the angled tube. Furnished with one stainless steel hose clamp. Weight is 2.9 ounces.

P/N 08-07296 ....**$67.75**

MODIFIED VA175 TUBE CONNECTOR

This is a direct replacement for the VA175 (Van's part number). The VA175 directs warm air in the RV-10 tunnel to both sides equally.

With the Modified VA175, air can be directed all to one side, partially to one side, or both sides, through the controllable (cable actuated) flapper on the inside of the unit.

P/N 08-07306 ....**$82.95**

SHUT OFF VALVE TUBE CONNECTOR

Expanded on one end to 2" I.D. to slip over a 2" O.D. tube to regulate or shut off air. Also available non-expanded for in-line applications. Weight is 2 ounces.

P/N 08-07305 ....**$80.75**

EXHAUST SHIELDS

Over the years we have seen failure of the rivets that hold the exhaust heat shield to the mounting bracket. The solution was to spot weld the stainless steel mounting bracket to the stainless steel heat shield thus eliminating the possibility of rivet failure. Adding additional spot welds insures reliability. They are offered in two sizes, 2 inch and 4 inch to cover most applications.

Exhaust Shield 2" .... P/N 08-07351 ....**$15.75**
Exhaust Shield 4" .... P/N 08-07352 ....**$21.45**

HEATER BYPASS VALVES

Three models of the all stainless steel heater bypass boxes are offered. The engine side control lever comes with a backing plate that attaches to the cabin side of the firewall and has a 2 inch scat tube outlet so a tube can be attached in the cabin that directs air where wanted.
All stainless steel construction offers a fireproof closure in case of an engine fire.
New flapper design offers better seal to keep out hot air when closed.

HEATER BYPASS VALVE FOR RV-10

P/N 08-06230 ....**$234.75**

HEATER BYPASS VALVE WITH CABIN SIDE CONTROL LEVER FOR RV-7, RV-8 AND RV-9

P/N 08-01311 ....**$105.00**

HEATER BYPASS VALVE WITH ENGINE SIDE CONTROL LEVER

P/N 08-01311-1 ....**$103.75**

ALL STAINLESS STEEL TRI-BOX

These boxes were developed for builders who want a simple, light, all stainless box that will fit in tight places, as it does not extend forward of the firewall as far as a standard box. Shown in the photo is a left unit. The box is available in both left and right units. The hole spacing is correct for the pre-punched holes in the RV-10 firewall, but they can be mounted on any firewall. For ease in cable routing, the arm on the box is adjustable using the provided lock nuts. Everything in the unit is stainless steel, including bushings and rivets. It is furnished with a closed-cell silicone gasket. Weight is 9.8 ounces and has a 2" inlet/outlet port. Please note that these boxes are a direct replacement for the aluminum box available from Vans. The RV-10 uses both a left and a right unit, and they also can be ordered separately. If you are not sure which one(s) you need, refer to your firewall plans drawings.

Right...............................P/N 08-04958 ....**$166.75**

Left unit is a special order part. Please contact us to order.

2 1⁄2" INLET AND 2" OUTLET HOMEBUILDERS CABIN HEAT BOX

This box is identical to the deluxe stainless steel cabin heat box, except that the inlet is 2 ½" OD so that it can be used on larger heat muff applications where the builder is using 2 ½" scat tubing. This box is currently being used on the MICCO certified aircraft. Weight is 7.2 ounces.

P/N 08-04013 .... **$162.75**

SIDE INTAKE HOMEBUILDERS CABIN HEAT BOX

P/N DL-015 - This box is identical to the standard cabin heat box, P/N DL-001, except that the air intake is parallel to the firewall rather than coming straight in from the heat muff. This gives the builder the option of running scat tube parallel to the firewall. Total weight is 5.2 ounces and has a 2" inlet/outlet port. Furnished with a flange gasket and four mounting rivets. Can also be bolted to firewall.

P/N 08-04957 ....**$128.75**

GPL STAINLESS STEEL EXHAUST SPRING

Winding Length: 26mm. Overall Length: 58.3mm. Hook Distance: 66mm(2.90"). Wire Diameter: .2. O.D.: 13mm. Number of Rolls: 13. GPL Part Number: EXH-2S. Replaces Rotax Part Number 938-795.

P/N 08-07632..............**$4.00**

GPL STAINLESS STEEL EXHAUST SPRING FOR 2 STROKES

Winding Length: 32mm. Overall Length: 64mm. Hook Distance: 75mm. Wire Diameter: 2.0mm. O.D.: 16mm. Number of Rolls: 9.5. GPL Part Number: EXH-4S. Replaces Rotax Part Number 938-790

P/N 08-12235..............**$8.00**

CESSNA RISER HALF CLAMP 0750161-25

Cessna Riser Half Clamp 0750161-25, for Cessna 172R and 172S.

P/N 05-04890 ....**$145.75**

AERONCA HEAT MUFF

Aluminum muffs for models 7AC and 11AC exhaust stacks. Fit either left or right side.

P/N 05-08715..........**$264.95**

2" DIAMETER 90° TUBE

This unit is designed to slide over the end of the 2" O.D. tube protruding from a cabin heat box that extends through the firewall. The short end of this unit is expanded to 2" I.D. Two stainless steel clamps are furnished with the unit. If you use scat tube, the 90° angle allows you to run the scat tube parallel to the firewall and away from undesirable areas (brake pedals, etc.) Constructed of seamless 6061T4 .028 wall tube. Weight: 1.4 oz. P/N 08-00863 .... **$42.50**

2" DIAMETER "Y" TUBE

"Y" tube is designed to be used with the Homebuilders cabin heat box to make warm air available to 2 or more locations in the aircraft. Constructed of seamless 2024T6 tube, it weighs only 2 oz. These tubes are expanded to 2" I.D. on the inlet end to slip over and clamp to the 2" O.D. tube of the cabin heat box. Due to the very light weight, "Y" tubes can be installed in scat tubing as well as attaching directly to cabin heat boxes. One stainless steel clamp is included with "Y" tube. Due to the light weight of only 1.7 oz., the non-expanded Y-tube can be placed anywhere in a run of tubing to give more options for heating additional areas of the aircraft. Furnished w/2 stainless steel hose clamps

Standard "Y" tube....................................P/N 08-04100 .... **$38.75**
Non-expanded "Y" tube...........................P/N 08-04130 .... **$39.60**

IN-LINE HEATER/DEFROSTER VALVE

This in-line valve connects to 2" SCAT ducting. It comes complete with cable end and can be hooked up in any combination to direct air to either heater outlets or defrost outlets. Actuating lever is adjustable to any position. Very popular on RV's & other homebuilt aircraft.

P/N 08-00053 .... **$109.95**

CESSNA TYPE HEAT MUFF

Heli-arc welded aluminum muff with rust-proof stainless steel fins for clamping to stack. Similar in design to the new Cessna type. Furnished with attaching clamps.

Muff w/2" Outlet .... P/N 08-02400 ....**$89.75**
Muff w/ 2.5" Outlet... P/N 08-02500 ....**$89.75**

THERMO-TEC STAINLESS STEEL CLAMP-ON HEAT SHIELDS

Stainless Steel Clamp-On Heat Shield incorporates Thermo-Tec proprietary coating technology. The new and improved flexible Stainless Steel Clamp-On Heat Shield blocks over 95% of the damaging radiant heat of the exhaust.The Stainless Steel construction of this heat shield provides the ultimate in protection. Comes complete with all clamps and new stainless stand offs. Easily installs in minutes.

1 ft. x 6 in.......................................P/N 08-13904 ....**$49.50**
2 ft. x 6 in.......................................P/N 08-13905 ....**$67.75**

EP

DELUXE HOMEBUILDER'S CABIN HEAT BOX

P/N DL-002 - This cabin box is our first modification to our standard heat box. The only difference between this and the standard is that the deluxe cabin heat box has one inlet and two outlets; the second outlet must be used to dump and route, via 2" scat tube, the warm air away from the low plenum area when heat is not being used in the cabin. (It is very important not to run the dump tube to another box on the other side of the firewall, because a constant flow of air is necessary to ensure that the heat muff does not overheat.) The weight on this unit is 5.5 ounces.

P/N 08-04005.......**$136.75**

2-1/2" OD INLET AND 2-1/2" OD OUTLET HOMEBUILDERS CABIN HEAT BOX

P/N DL-005 - This box is identical to the deluxe stainless steel cabin heat box, except that the inlet and outlet are 2 ½" OD so that this box can be used when the builder wants to use 2 ½" scat tubing throughout the project. (This box was used on the Cirrus SR20 certified aircraft. The SR20 now uses the DL-008 box listed below.) Weight is 6.3 ounces. .... P/N 08-04015.......**$169.50**

DELUXE HOMEBUILDERS CABIN HEAT BOX, ALL STAINLESS STEEL

P/N DL-006 - This box was recently developed in response to customer requests. With the exception of brass shaft bushings, this box is constructed entirely of stainless steel, including all SS blind rivets. Like the deluxe boxes, this unit has a 2" inlet and 2" outlets. For the added durability of all stainless steel, the box still only weighs 10 ounces.

P/N 08-04025...........................**$156.75 ea.**

STANDARD HOMEBUILDERS CABIN HEAT BOX

P/N DL-001 - This cabin heat box has been engineered to be the smoothest, most efficient and lightest heat box built. Fabricated from aircraft-grade aluminum with stainless steel shaft, arm and flapper. Originally designed for use on the popular RV-4 homebuilt, but is applicable to most other designs. Total weight is only 5.2 ounces. Furnished with a gasket flange for the forward side of the firewall for leak-free ducting of warm air to anywhere the builder wants it. Inlet and outlet are 2 inch OD 6061-T4 seamless alum. The body of the box is constructed of 5052-032 alum. The outlet tube extends through the firewall so that scat tubing can be attached to route the warm air. Superior craftsmanship and quality. Over 4,000 sold to date. P/N 08-04000 ....**$121.75 ea.**

TOPCAP ENGINE PROTECTOR

Install TopCap in place of a removed cylinder to protect the engine from dirt, debris, and stray parts. Made from fuel and solvent resistant polymer, TopCap allows for full crankshaft rotation. One size fits Lycoming wide deck 320, 360, 540, 720 and Continental 470, 520, and 550.

P/N 08-00373.......... **$23.75 /pr.**

TUBING CONNECTORS

2" ALUMINUM FLANGE

Accepts 2" scat tube. Flange allows riveting to firewall, baffles, etc. Wt: 0.2 oz.

P/N 08-04135............ **$16.50**

CARB HEAT CONNECTOR

Mounts on FAB airbox or similar airbox. Flange accepts 2" scat tube from muff. Standoff design allows hot air to escape when carb heat is not selected. Weight: 0.9 oz.

P/N 08-04145............ **$23.50**

FLANGED DUCT

Accepts 2" ducting on both ends. Helps route ducting through bulkheads, firewalls, etc. Especially useful for getting heat to the back seat of the aircraft. 3" square plate with 2" tubing projecting 1" from each side. Wt:0.7 oz.

P/N 08-04140............ **$21.50**

CABIN HEAT BOX

Custom built aluminum box mounts to firewall. Lever on butterfly may be attached to push-pull control for close adjustment of cabin air flow. Two 2" intake ports, one 2" outlet. Wt. 1 lb. 7-1/2" long. Fine quality construction.

P/N 08-01500............... **$159.75**

HOMEBUILDERS CABIN HEAT SHUTTLE KIT

Easily assembled and designed so that it can be modified for custom applications. Kit includes construction plans and directions along with installation hints for the popular Vans RV series of homebuilt aircraft. Controlled by ratchet type control cable such as ACS model A740 (P/N 05-12500). Order control cable separately.

P/N 08-04460..................**$68.75**

TURBO HEAT CABIN HEAT MUFF

The Turbo Heat is an improved version of the standard Experimental Cabin Heat Muff. Each canister is made from industrial grade .063 aluminum tubes with .125 6061T-6 aluminum end caps laser cut, welded and then machined to exact tolerance for ease of installation and a vibration free fit. Internally, each canister is fitted with 10 aluminum rods surrounded by copper windings for superior heat transfer. Dimensions: The standard model is 8 in. in length with 2 in. intake and exhaust tubes. The end caps are machined specifically for the diameter of your engine's exhaust manifold. Please select your port exhaust diameter at checkout of 1.5 in, 1.75 in, or 2.0 in. P/N 05-15249............... **$173.75**

ENGINE SAVER

Every aircraft owner knows that his engine is subject to moisture build up and internal rust formation when not flown regularly. Oil companies spend millions developing special additives to minimize rust. Now there is a better way to fight this rust! The Engine saver produces a continuous supply of very low humidity air that is introduced into the engine through the breather. Low humidity air prevents water formation in the engine. The slight pressure built up keeps the moist outside air from entering, allowing the dry air to flow past the piston rings into the upper cylinder area protecting it as well. The Engine Saver is 110vac powered, requires no installation or FAA approval, and works with all piston engines. Pilots are flying less and the Engine Saver will save them money by reducing maintenance costs. P/N 08-00724........................ **$325.00**

EP

AWI EXHAUST SYSTEMS

Aerospace Welding Minneapolis, Inc.

EXHAUST SYSTEMS BY AEROSPACE WELDING MINNEAPOLIS, INC.

Aerospace Welding, Inc. has earned a reputation for its uncompromising commitment to quality exhaust systems and components. Aircraft Spruce is an authorized distributor of AWI products, and as such can assure our customers of minimal down time and fast shipment through the Priority Service Proram at AWI. All exhaust systems are built in fixtures for precise fit and are FAA approved for the listed aircraft. Available in factory new (N) and overhauled (OH) condition as noted.

*** NOTE: ***= 0550157-7 has been consolidated under PMA part number A0450338-14

Aircraft	OEM Part No.	Description	Part No.	Price
C-150	0450400-3	LH Muffler (N)	08-00061	**$371.00**
	0450400-26	RH Muffler (N)	08-00062	**$371.00**
	0450338-70	RH Riser (N)	08-00063	**$70.75**
	0450338-69	LH Riser (N)	08-00064	**$87.99**
	0450338-66	RH Tailpipe (N)	08-00065	**$95.00**
	0450338-67	LH Tailpipe (N)	08-00066	**$101.75**
	0450400-200	Shroud	08-14678	**$237.95**
	0450400-201	Shroud	08-14679	**$248.95**
	0450400-6	Shroud	08-14680	**$248.95**
	A0450338-10	Tailpipe Clamp without Pin	08-16025	**$10.50**
	A0450338-66	Right Hand Tailpipe	08-16026	**$93.85**
	A0450338-9	Tailpipe Clamp with Pin	08-16028	**$21.50**
	A0450400-200	LH Shroud	08-15997	**$248.95**
C-152	0454009-5	Muffler (OH)	08-00067	**$436.00**
	0454009-6	Muffler (OH)	08-00068	**$375.00**
	EL0099001-716	Muffler (OH)	08-00069	**$679.00**
	A0454002-10	LR Riser	08-15998	**$167.85**
	A0454002-11	LF Riser	08-16000	**$167.85**
	A0454002-2	RR Riser	08-16001	**$167.85**
	A0454002-4	RF Riser	08-16002	**$167.85**
	A0454023-1	LR Riser	08-16003	**$190.75**
	A0454023-2	LF Riser	08-16004	**$190.75**
	A0454023-3	RR Riser	08-16005	**$190.75**
	A0454023-4	RF Riser	08-16006	**$190.75**
C-170B/172	0550157-9	LH Muffler (OH)	08-00070	**$469.00**
	A0450338-14*	RH Muffler (OH)	08-00071	**$457.00**
	0550157-7	Riser (N)	08-00072	**$70.75**
	0550157-8	Curved Riser(OH)	08-00073	**$112.75**
	A9954100-9	Muffler (N)	08-07517	**$882.00**
	A99541005	Riser (N) LR	08-07520	**$179.75**
	A99541005	Riser (N) LF	08-07521	**$181.75**
	A0550176-54	Tailpipe	08-14681	**$135.99**
	A0550176-57	4.5" Curved Riser	08-16010	**$81.85**
	A0550176-59A	Muffler Assembly	08-16011	**$634.00**
	A0550176-7	Straight Riser	08-16012	**$66.95**
	A0450338-8	Tailpipe Clamp Kit	08-16027	**$28.80**
	A10172-013-2	Extended Tailpipe	08-16054	**$387.00**
	A1455009-3	Muffler Assmbly	08-16055	**$529.00**
	A1455009-3FP	Floatt Plane Muffler Assembly	08-16055	**$529.00**
	A1754001-23	Muffler	08-16058	**$482.00**
	A9954100-3	Shroud	08-16087	**$515.00**
C-172 Cont.	0550176-59	Muffler (N)	08-00074	**$431.00**
	0550176-13	Riser (N)	08-00076	**$90.00**
C-172	1754001-25	Muffler (N)	08-00077	**$467.00**
	1754007-1	Riser (OH) RR	08-00079	**$187.75**
	1754008-1	Riser (OH) LR	08-00080	**$187.75**
	1754009-1	Riser (OH) LF	08-00081	**$187.75**
	1754010-1	Riser (OH) RF	08-00082	**$187.75**
C172R/172S	A9954100-9	Muffler (N)	08-07517	**$882.00**
	1754001-9	Muffler w/ flm tube	08-00084	**$570.00**
	0550176-54	Tailpipe	08-14681	**$135.99**
	2454000-15	Tailpipe	08-14682	**$353.00**
C-177RG	2054000-42	LH Muffler (OH)	08-00085	**$394.00**
	2054000-40	LH Muffler (OH)	08-00086	**$392.00**
	2054000-31	LH Muffler (OH)	08-00087	**$394.00**
	2054000-39	RH Muffler (OH)	08-00088	**$394.00**
C-180	0750290-3	Muffler OH Dual exh.	08-00089	**$412.00**
	0750130-6	Stack Assy.	08-14683	**$714.00**
C-180/182	0750130-9	Muffler (OH)	08-00090	**$467.00**
	0750130-12	Muffler (OH)	08-00091	**$467.00**
C-182S	9954200-11	Tailpipe	08-14684	**$302.00**
	9954200-12	Tailpipe	08-14685	**$302.00**
C-180/182/185	A0750161-28	Muffler (N)	08-07514	**$625.00**
	A0750238-47	Exhaust Stack	08-16046	**$724.00**
	A1254017-19	Muffler Asembly	08-16053	**$610.00**
	A9954017-19	Muffler Assembly	08-16086	**$610.00**
	A0540161-28	Muffler Assembly	08-16007	**$424.00**
	A0750161-40	Shroud	08-16008	**$328.00**
	A0750130-61	Shroud	08-16009	**$327.00**
C-182/185	0750161-89	Muffler (N)	08-00094	**$426.00**

SEE WEBSITE FOR AIRCRAFT MODEL ELGIBILITY

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EP

AWI EXHAUST SYSTEMS

Aircraft	OEM Part No.	Description	Part No.	Price
	0750238-20	15 inch Stack (N)	08-00095	**$703.00**
C-182R	2254003-17	Tailpipe	08-14686	**$133.75**
	2254003-18	Tailpipe	08-14687	**$133.75**
C-182RG	1250251-12	Muffler (OH) w/ ring	08-00107	**$341.00**
C-206/210	1250263-2A	LH Collector (OH)	08-00103	**$515.00**
	1250264-2A	RH Collector (OH)	08-00104	**$515.00**
	1250250-5	Heat Exchanger	08-00105	**$430.00**
	650-43	LH Muffler (OH)	08-00106	**$435.00**
	1250251-13	RH Muffler OH w/ rings	08-00107	**$341.00**
	1250251-16	RH Muffler (OH)	08-00108	**$280.95**
	1250256-7	LH Tailpipe (N)	08-00109	**$133.75**
	12502646-6	RH Tailpipe (N)	08-00111	**$132.75**
C-T206/T210	1250860-110	Tailpipe (OH)	08-00112	**$445.00**
	1250860-104	RF Stack (OH)	08-00113	**$472.00**
	1250860-105	Turbo Inlet (OH)	08-00114	**$473.00**
	1250860-203	Heat Exchanger (OH)	08-00115	**$1,514.00**
	1250860-90	Crossover (OH)	08-00116	**$219.95**
	1250860-100	Riser (N)	08-00117	**$69.75**
	1250860-07	Tailpipe Adapter(OH)	08-00119	**$88.75**
	12502860-164	New Tailpipe	08-15666	**$453.00**
	12520860-168	Tailpipe Adapter	08-15667	**$77.75**
	12520860-1057M	LH Exhaust Modified	08-15669	**$1,278.00**
	12520860-100	Riser	08-15670	**$57.95**
	12520860M-122	Turbo Inlet Assy Modified	08-15671	**$560.00**
	12520860-29	Riser Clamp Half	08-15674	**$24.50**
	1250263-2	LH Stack Assembly	08-16048	**$1,015.00**
	1250264-2	RH Stack Assembly	08-16049	**$1,015.00**
	1250860-117	Riser	08-16051	**$199.75**
	120860-29	Clamp	08-16052	**$27.50**
C-337	1250250-5	Muffler (OH)	08-00120	**$394.00**
	1555001-1	Muffler (OH)	08-00121	**$1,868.00**
	9910295-22	Right AFT	08-16068	**$315.00**
	9910296-7	Slip Joint SS	08-16069	**$275.95**
	9910299-15	LH lbow Sealess	08-16071	**$395.00**
	9910299-16	RH lbow Sealess	08-16074	**$395.00**
	9910299-15L	LH Inconel Elbow Sealess	08-16072	**$705.00**
	9910299-16L	RH Inconel Elbow Sealess	08-16075	**$705.00**
	9910299-3	LH Elbow Seal	08-16076	**$395.00**
	9910299-4	RH Elbow Seal	08-16078	**$395.00**
	9910299-3L	LH Inconel Elbow Sealess	08-16077	**$652.00**
	9910299-4L	RH Inconel Elbow Sealess	08-16079	**$652.00**
	9910299-13	Left Westgate Overboard	08-16015	**$215.95**
	9910299-14	Right Westgate Overboard	08-16016	**$215.95**
	9910299-5	Elbow	08-16080	**$245.95**
	9910299-6	Westgate Overboard	08-16081	**$163.80**
	9910299-10	Bypass Elbow	08-16014	**$363.00**
	A075161-22	Clamp	08-16044	**$11.50**
	A0750161-24	Clamp	08-16045	**$30.50**
Piper J-3	71053-02	Muffler (OH)	08-00122	**$335.00**
PA18	12433-014	Muffler (OH)	08-00123	**$349.00**
	12457-002	Stack (OH)	08-00124	**$385.00**
PA22	A10308-003	Muffler (N)	08-13103	**$450.00**
	12043-22	Stack (OH)	08-00127	**$527.00**
	12043-23	Stack (OH)	08-00128	**$475.00**
PA28-140/-180	99482-00	Muffler (OH)	08-00129	**$380.00**
	A99482-02	Muffler (N)	08-13105	**$433.00**
	99044-02	Stack (OH)	08-00131	**$285.95**
	99044-04	Stack (OH)	08-00132	**$440.00**
	99044-05	Stack (OH)	08-00133	**$347.00**
PA28-10/180/ 151/ 494/ 191	AWI 63666-002	Tailpipe (N)	08-07515	**$181.75**
	AWI 63723-001	Carb. Heat Shroud	08-14861	**$429.00**
PA-28-40/160	A63723-002	Shroud Bottom	08-14862	**$294.95**
		Left Front Stack 8” Drop	08-15764	**$427.00**
PA28-151/161/ 180/191	66894-03	Muffler (N)	08-00135	**$304.00**
PA28R-180/200	67517-00	Muffler (N)	08-00136	**$325.00**
PA28-235	65012-00	Muffler (OH)	08-00137	**$381.00**
	65813-00	Muffler (OH)	08-00138	**$381.00**
	68718-03	Muffler (OH)	08-00139	**$381.00**
	65038-00	LH Stack (OH)	08-00140	**$530.00**
	65039-00	RH Stack (OH)	08-00141	**$468.00**
PA28-236	67517-00	Muffler (N)	08-00136	**$325.00**
	LW12127	Transition (N)	08-00145	**$2,003.00**
	LW12437	Transition (N)	08-00146	**$1,832.00**
	40310-09	Lower Tailpipe (OH)	08-00147	**$548.00**
	40310-08	Upper Tailpipe (OH)	08-00148	**$518.00**
PA32-260	68718-00	Muffler (OH)	08-00150	**$454.00**
PA32-300	68796-00	Muffler (OH)	08-00153	**$431.00**
	68793-00	Stack (OH)	08-00154	**$564.00**

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Aircraft	OEM Part No.	Description	Part No.	Price
PA32R-301-T	W15859	Westgate (OH)	08-00156	**$1,398.00**
PA34-200-I	78463-10	LH Tailpipe (OH)	08-00158	**$511.00**
	78463-10	RH Tailpipe (OH)	08-00159	**$511.00**
PA38-112	77669-02	Muffler (OH)	08-00160	**$237.95**
PA44-180	86299-07	Muffler (OH)	08-00161	**$269.95**
A16696	PA31 LH Center Tube	31-310/325 Navajo/31-310/ 325/350/31-350 Chieftain	08-14621	**$132.80**
A16697	PA31 LH Aft Elbow	31-350 Chieftain/31-310/325 Navajo/31-310/325/350	08-14622	**$349.00**
A16826	PA31 LH Manifold Assembly	31-310/325 Navajo/31-310/ 325/350/31-350 Chieftain	08-14623	**$780.00**
A16621	PA31 RH Center Tube	31/31-310/325 Navajo/31-350 Chieftain	08-14624	**$132.80**
A16620	PA31 RH Aft Tube	31-350 Chieftain/31-310/325 Navajo/31-310/325/350	08-14625	**$321.00**
A16825	PA31 RH Manifold Assembly	31-310/325 Navajo/31-310/ 325/ 350/31-350 Chieftain/31-350 Chieftain	08-14626	**$780.00**
A40310-10	PA31-350 Upper Tailpipe Assembly	31-350 Chieftain	08-14627	**$504.00**
A40310-9	PA31-310/325/350 Lower Tailpipe Assembly	31-310/325/350/31-350 Chieftain/31-310/325 Navajo	08-14628	**$499.00**
A15849	PA31 Short Fwd Tube	31-350 Chieftain/31-310/325 Navajo/31-310/325/350	08-14629	**$125.75**
	189	RH Muffler (OH)	08-00163	**$168.00**
B-V35/A36	35-950005-1	LH Stack (OH)	08-00164	**$472.00**
	35-950005-3	RH Stack (OH)	08-00165	**$472.00**
	701-4	LH Muffler (N)	08-00166	**$260.95**
	701-20	LH Muffler (N)	08-00167	**$315.00**
	701-5	RH Muffler (OH)	08-00168	**$448.00**
	701-19	RH Muffler (OH)	08-00169	**$481.00**
	35-950004-9	RH Tailpipe (OH)	08-00171	**$167.80**
	35-950005-61	LH Tailpipe (N)	08-00172	**$166.75**
	35-950005-57	RH Tailpipe (N)	08-00173	**$169.95**
	35-950004-7	LH Tailpipe (N)	08-00176	**$166.75**
	A35-95000539	RH Collector (N)	08-13109	**$1,043.00**
	A189	RH Muffler	08-16041	**$260.95**
	A492-43	LH Muffler	08-16042	**$472.00**
B-35H-P	492-27	RH Muffler (OH)	08-00174	**$272.95**
	35-950005-61	LH Tailpipe (N)	08-00178	**$113.00**
	35-950005-57	RH Tailpipe (N)	08-00179	**$136.00**
B-55/58	96-950002-55	LE OTNBD Tailpipe (OH)	08-00180	**$589.00**
	96-950002-57	RE INBD Tailpipe (OH)	08-00181	**$573.00**
	96-950002-59	LE INBD Tailpipe (OH)	08-00200	**$550.00**
	96-950002-61	RE OTNBD Tailpipe (OH)	08-00201	**$573.00**
	96-950002-31	Riser Cyl. #3 (OH)	08-00202	**$321.00**
	96-950002-7	Riser Cyl. #4 (OH)	08-00203	**$319.00**
	96-950002-33	Riser Cyl. #5 (OH)	08-00204	**$202.95**
	96-950002-9	Riser Cyl. #6 (OH)	08-00205	**$201.95**
B-Sundowner	099001-127	Muffler (OH)	08-00206	**$713.00**
B-Sport	099001-126	Muffler (OH)	08-00207	**$713.00**
B-Sierra	099001-131	Muffler (OH)	08-00208	**$930.00**
Bellanca Citabria	3-1493R	Muffler (OH)	08-00209	**$286.95**
	3-1493L	Muffler (OH)	08-00210	**$286.95**
Bellanca 8KCAB	099001-046	Muffler (OH)	08-00213	**$752.00**
Bellanca 8GCBC	099001-046	Muffler (N)	08-13106	**$747.00**
Bellanca 7ECA	099001-049	Muffler (OH)	08-00217	**$718.00**
Grumman AA1 Yankee	099001-113	Muffler (OH)	08-00218	**$935.00**
Grumman AA1 A&B	099001-137	Muffler (OH)	08-00219	**$815.00**
Grumman AA1/ AA5/ AA5A/ AA5B	AWI099001-102	Straight Riser (N)	08-07523	**$103.75**
Grumman AA5 Traveler	099005-148	Muffler (OH)	08-00220	**$713.00**
Grumman AA5B Tiger	A099005-184	Riser	08-16040	**$199.75**
Grumman AA5A Cheetah	099005-195	Muffler (OH)	08-00221	**$681.00**
Grumman AA5B Tiger	099001-191	Muffler (OH)	08-00222	**$751.00**
Grumman AA5/AA5A	099005-195	Muffler (OH)	08-00221-1	**$674.00**
Mooney M20	630060-501	180 Muffler (OH)	08-00223	**$675.00**
	630060-503	200 Muffler (OH)	08-00224	**$753.00**
Mooney M-20	A630053-013	Upper Riser	08-16030	**$160.75**
Mooney M20J	A630119-501	Tailpipe	08-16039	**$417.00**
Musketeer	AWI099001-120	Straight Riser (N)	08-13107	**$109.75**
American Champiom	A099005-193	O-360 Muffler	08-10702	**$718.00**
Navion	A35-950005-40	Hi Performance Right Assembly	08-15988	**$995.00**
	A35-950005-39	Hi Perf RH Collector	08-15989	**$1,080.00**
	A35-950005-37	Hi Perf LH Collector	08-15990	**$1,080.00**

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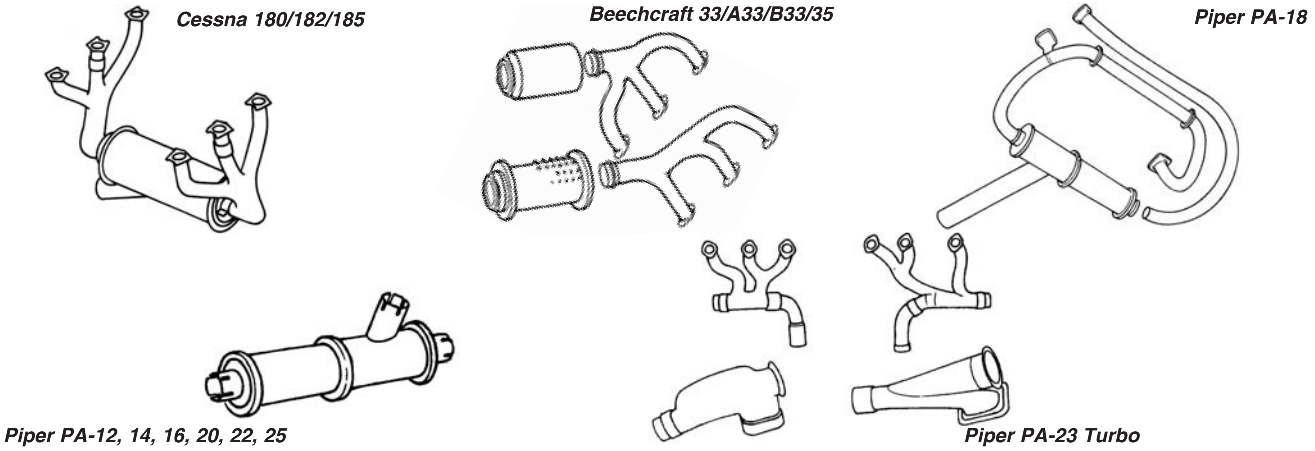
NICROCRAFT EXHAUST PARTS BUILT TO TAKE THE HEAT

Aircraft Spruce & Specialty Co. offers fully overhauled and factory new exhaust components for use in most general aviation aircraft. Manufactured by Wall Colmonoy Corp. Nicrocraft exhaust parts are built to the latest original equipment specifications. Heat-resistant 321 stainless steel is used in the construction of all new p arts. Bellows are made of Inconel alloy for superior heat resistance. Individual exhaust components and complete systems are available for virtually all single and twin engine Cessna, Piper, Beech, Bellanca, Grumman, Mooney, and Rockwell aircraft. (Please provide your complete aircraft and engine model and serial numbers, year of aircraft, and exact components required.) Most components are available for immediate shipment.



CESSNA EXHAUST PARTS

Application	Desc.	OEM	PN	Price
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Clamp Asy	186-8	08-16093	**$40.85**
Cessna 180, S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Clamp Asy	192-001	08-16094	**$37.60**
Cessna 170B, 172, 172A	Clamp Asy	221-5	08-16101	**$56.75**
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Clamp Asy	568-06	08-16120	**$45.85**
Cessna 172B thru 172H; F172F thru F172K; P172D; 175B,C	Clamp Asy	568-31	08-16121	**$51.75**
Cessna : 205; 206; U206; U206A, B, C, D, F; P206, P206A, B, C, D, E	Clamp Asy	596-0005	08-16122	**$40.65**
Cessna 210B, C, D, E, F, G, H, J, K, L, M, N	Clamp Asy	596-02	08-16123	**$45.85**
Cessna 205, 206, U206A,thru,F, P206, P206A thru E, 210B thru N	Collector LH	1250263-2, 1250256-3	08-00850	**$466.00**
Cessna 205, 206, U206A,thru,F, P206, P206A thru E, 210B thru N	Collector RH	1250264-2, 1250257-3	08-00851	**$466.00**
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Collector, LH	320-23	08-16110	**$588.00**
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Collector, RH	320-24	08-16111	**$588.00**
Cessna T310P, Q, R, 320D, E,F; 401, A, B; 402, A, B	Header, LH	8026-36	08-16139	**$1,423.00**
Cessna T310P, Q, R, 320D, E,F; 401, A, B; 402, A, B	Header, RH	8026-25	08-16138	**$1,917.00**
180B, C, D, E, F	Heat Muffler	0750130-44	08-00556	**$384.00**
182B, C, D, E, F	Heat Muffler	0750130-9	08-00554	**$442.00**
Cessna 205, 206, U206A,thru,F, P206, P206A thru E, 210B thru N	Heat Muffler LH	1250250-5	650-43	**$537.00**
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Heat Muffler	225-5	08-16108	**$397.00**
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Heat Muffler	CEM0007	08-16154	**$440.00**

Application	Desc.	OEM	PN	Price
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Heat Muffler	CEM0008	08-16155	**$440.00**
Cessna 210B	Heat Muffler RH	650-99	08-16134	**$332.00**
Cessna 152	Muffler	0454009-5	08-03629	**$335.00**
& A152 (S/N 978 & up)	Muffler	0454009-6	08-03628	**$346.00**
Cessna R172	Muffler	1455009-3	08-00341	**$419.00**
Cessna 180, 182, 185	Muffler	0750161-28, 0750161-89	08-01313	**$368.00**
Cessna 172 I thru Q, 177	Muffler	1754001-15, 1754001-9, 1754001-22	08-03635	**$417.00**
Cessna 310R	Muffler	8282-1	08-16140	**$346.00**
Cessna 172R; 172S	Muffler	WCC9954100-9	08-16165	**$660.00**
Cessna 150G,H,J,K,L,M A150K, L, M, F150G,H,J,K,L,M, FA150K,L,	Muffler LH	0450400-3	8300-3	**$335.00**
C170,172,A,Cont 0-300/ C145	Muffler LH	0550157-9	221-9	**$518.00**
Cessna 172B thru H, F172F thru K, P172D, 175B,C	Muffler LH & RH	0550176-59	568-110	**$353.00**
Application	**Desc.**	**OEM**	**PN**	**Price**
Cessna 150G,H,J,K,L,M A150K, L, M, F150G,H,J,K,L,M, FA150K,L,	Muffler RH	0450400-26	8300-4	**$335.00**
C170,172,A,Cont 0-300/ C145	Muffler RH	0550157-32	08-00551	**$518.00**
C210B	Muffler RH	1250251-16	08-00849	**$336.00**
Cessna 205; 206; U206; U206A, B, C, D, F; P206, P206A, B, C, D, E	Muffler w/ Heat Shield	650-95	08-16132	**$480.00**
Cessna 337 (Rear Engine)	Muffler, Rear	CEM0022	08-16157	**$1,978.00**
Cessna 170B, 172, 172A	Riser	221-7	08-16102	**$109.75**
Cessna 170B, 172, 172A	Riser	221-8	08-16103	**$170.90**
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Riser	223-01	08-16105	**$156.95**
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Riser	223-02	08-16106	**$147.75**
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Riser	223-03	08-16107	**$139.75**
Cessna 205; 206; U206; U206A, B, C, D, F; P206, P206A, B, C, D, E	Riser	596-30	08-16124	**$100.75**

Prices Subject to Change Without Notice

NICROCRAFT EXHAUST PARTS

CESSNA EXHAUST PARTS CONT.

Application	Desc.	OEM	PN	Price
Cessna 210B, C, D,E, F, G, H, J, K, L, M, N	Riser	650-18	08-16127	**$106.75**
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Riser	8300-13	08-16146	**$122.75**
Cessna 170B, 172, 172A	Shroud Asy, LH	221-15	08-16104	**$397.00**
Cessna 205; 206; U206; U206A, B, C, D, F; P206, P206A, B, C, D, E	Shroud Asy, LH	650-47	08-16129	**$289.95**
Cessna 210B	Shroud Asy, RH	650-46	08-16128	**$116.75**
Cessna	Spring	186-218	08-16091	**$4.35**
C172 O-320	Stack	1754007-1	08-00844	**$157.90**
C172 O-320	Stack	1754008-1	08-00846	**$157.90**
C172 O-320	Stack	1754009-1	08-00847	**$157.90**
C172 O-320	Stack	1754010-1	08-00848	**$171.75**
Cessna 180, 182, 185	Stack	CES0002	08-16158	**$792.00**
Cessna 180, 182, 185	Stack	CES0003	08-16159	**$944.00**
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Stack Asy, LH Engine Inbound	BES0007	08-16152	**$414.00**
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Stack Asy, LH Engine Outbound	BES0005	08-16150	**$414.00**
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Stack Asy, RH Engine Inbound	BES0006	08-16151	**$414.00**
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Stack Asy, RH Engine Outbound	BES0008	08-16153	**$414.00**
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Stack, LH	BES0002	08-16149	**$443.00**
Cessna 170B, 172, 172A	Tailpipe	221-33	08-16099	**$211.95**
Cessna 170B, 172, 172A	Tailpipe	221-4	08-16100	**$211.95**
Cessna 205; 206; U206; U206A, B, C, D, F; P206, P206A, B, C, D, E	Tailpipe	650-67	08-16131	**$135.85**
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Tailpipe	8300-7	08-16147	**$123.75**
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Tailpipe	8300-8	08-16148	**$123.75**
Cessna	Tension Spring	186-225	08-16092	**$3.85**

BEECHCRAFT EXHAUST PARTS

Application	Description	OEM	PN	Price
Beech FEEA,F33C, S/N CJ-26 & UP / C33A,E33A S/N CE-290 & UP	Collector LH	35-9016-1S, 35-9016-1SR	08-00853	**$492.00**
Beech FEEA,F33C, S/N CJ-26 & UP / C33A,E33A S/N CE-290 & UP	Collector RH	35-9016-1S, 35-9016-1SR	08-00854	**$513.00**
Beechcraft B33, S/N CD-736 THRU CD-813	Heat Muffler LH w/o Shroud	186-30	186-30	**$519.00**
Beechcraft H35, J, K, M, N, P35	Heat Muffler LH	492-43	08-00555	**$472.00**
Beechcraft 36,A36 S/N E-1 AND UP / S35,V35,V35A,V35B, S/N D-7310 AND UP	Heat Muffler RH	701-19	701-19	**$406.00**
Beechcraft Model 76 Duchess	Muffler	8295-205	08-16145	**$754.00**
Beechcraft 33, A 33, B33, S/N CD-1 THRU CD-735	Muffler RH	189	189	**$269.95**
Beechcraft H35; J35; K35; M35; N35; P35	Muffler RH	492-27	08-16115	**$355.00**
Beechcraft C33A; E33A, C; F33A, C; G33; S35; V35, A, B; 36; A36	Muffler and Shroud Assembly, RH	701-21	08-16135	**$606.00**
Beechcraft C33, E33	Muffler and Shroud Assembly, RH	8003-9	08-16137	**$714.00**
Beechcraft H35; J35; K35; M35; N35; P36	Shroud Assembly	492-42	08-16116	**$199.75**
Beechcraft C33, E32	Shroud Assembly RH	701-50	08-16136	**$199.75**
Beechcraft B33 THRU E33 S/N CD-1 THRU CD-1254	Stack Assembly LH	35-950118	08-03627	**$509.00**
Beechcraft B33 THRU E33 S/N CD-1 THRU CD-1254	Stack Assembly RH	35-950116	08-03626	**$510.00**
Beechcraft Model 76 Duchess	Stack, Cylinder #1	8295-101	08-16141	**$206.95**
Beechcraft Model 76 Duchess	Stack, Cylinder #2	8295-102	08-16142	**$206.95**
Beechcraft Model 76 Duchess	Stack, Cylinder #3	8295-103	08-16143	**$206.95**
Beechcraft Model 76 Duchess	Stack, Cylinder #4	8295-104	08-16144	**$206.95**

OVERHAULED EXHAUST PARTS

Aircraft	Description / OEM#	Part No.	Price
Beechcraft C33A, E33A, F33A, C, S35, 36, A36	Heater Muffler RH w/o shroud / #701-19	701-19R	**$365.00**
Cessna 210B	Heater Muffler LH / #1250250-15	1250250-5R	**$239.00**
Piper PA-18	Muffler / #12433-15	12433-15R	**$357.00**

PIPER EXHAUST CLAMP

This clamp is used on the exhaust system. The spot weld on the V Band is failing. The failure could result in the release of high-temperature gasses inside the engine compartment and possibly cause an in flight fire according to the published AD.

P/N 05-04866.. **$595.00**

CESSNA & BEECH FAA / PMA REPLACEMENT MUFFLERS & EXHAUST COMPONENTS

FAA/PMA approved equivalents.
Cessna 120, 140, 150 Exhaust Systems: Include one left and one right muffler, shroud, tailpipe and clamps.
Cessna 120, 140, 150, 150A thru H, J, K, A150K, L & M Muffler Systems: Muffler with attached stacks. Original Cessna 120 & 140 shrouds will not fit the mufflers below.
Cessna 152 & 152A STC'D Exhaust System: For Cessna 152 S/N 15279406-15283591; F15201429-F15201673; A1520735-1520878; FA1520337-FA1520357. Ideal for homebuilts using 0-235, L2C, N2C and 0-320 Lycoming Engines.
Cessna Tailpipe Extensions: Cessna 150, 170 and early model 172 replaces original exhaust pipe Cessna P/N 0450338-66, 0550157-3 and 055015733. Extends 2" past original tailpipe, 2" OD stainless steel, Bolt-on, End cowling smudges and Reduces cabin noise.

Description	Part No.	Price
Cessna 120/140 Exhaust System	05-05279	$1,151.00
Cessna 150 Exhaust System	05-05280	$1,151.00
Cessna 120, 140, 150 Muffler Lh	05-05271	$505.00
Cessna 120, 140, 150 Muffler Rh	05-05272	$553.00
Cessna 120, 140, 150 Lh Shroud	05-05281	$199.75
Cessna 120, 140, 150 Rh Shroud	05-05282	$189.95
Cessna 150 Tailpipe, Lh	05-05273	$100.75
Cessna 150 Tailpipe Rh	05-05274	$144.75
Muffler To Tailpipe Clamp	05-05275	$37.50
Cessna 120, 140 Tailpipe, Lh	05-05276	$97.75
Cessna 120, 140 Tailpipe, Rh	05-05277	$98.75
Cessna 150 Exhaust System	05-05278	$41.70
S/s Lycoming Flange	05-05292	$23.60
Riser, #4 Cylinder	05-05294	$79.75
Riser, #1 Cylinder	05-05295	$69.99
Riser, #3 Cylinder	05-05296	$69.99
Clamp Assy	05-05297	$22.50
Muffler Shroud	05-05298	$337.00
Cessna 152 Muffler Only	05-05299	$413.00
Cessna 172 Muffler, S/n 17259224 To 59223	05-05250	$479.00
Cessna 172 Muffler, S/n 17265375 To 68582	05-05251	$530.00
Cessna 180 Muffler	05-05262	$562.00
Cessna Extension Tailpipe	05-05269	$208.95
Extended Tailpipe	05-05302	$121.75
Cessna 180 Tailpipe Extension	05-05270	$86.95
Musketeer Muffler	05-05263	$434.00
Musketeer Muffler Shroud	05-05264	$207.95

AERONCA FAA/PMA STACKS & HEAT MUFFS

Aeronca 7AC & 11AC stacks, fits Continental 65 thru O-200 engines.

Description	Part No.	Price
Aeronca Exhaust Stacks Aluminized Mild-steel Pair	05-05236	$399.95
Aeronca Lh Exhaust Stack Aluminized Mild-steel	05-05237	$292.95
Aeronca Rh Exhaust Stack Aluminized Mild-steel	05-05238	$243.95
Aeronca Heat Muff Aluminum (One Needed Per Stack)	05-05247	$176.75
Aeronca Exhaust Stacks Lh Mild Steel	05-08067	$274.00
Aeronca Exhaust Stacks Rh Mild Steel	05-08068	$274.00

TAYLORCRAFT FAA / PMA DESIGN B THRU BC12D MUFFLER

A-65, A-75 and C85-8 engines only. Fits B-through BC12D series. 1020 Mild Steel and cold galvanized spray finish (for corrosion protection).
Replaces OEM part BC-A6031. This system is compatible only with OEM shrouds. Not compatible with Univair shrouds.
Note: Exhaust system installation on Taylorcraft is unique in that it requires either the removal of the engine or the loosening of engine bolts. This is the original design.
P/N 05-05246 ....**$806.00**

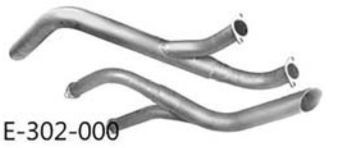
PIPER FAA / PMA REPLACEMENT MUFFLERS & EXHAUST COMPONENTS

Requires Welding

Replacement mufflers & exhaust components for Piper Aircraft, all are FAA/PMA approved equivalents.
Note: Bale Assembly, complies with Service Bulletin No. 759 and is manufactured in accordance with FAA specifications. Wire bale is installed into tailpipe to avoid blockage of the tailpipe, should a baffle failure occur.

Description	Part No.	Price
Pa-18 Super Cub Muffler	05-05256	$571.00
Piper Tailpipe Clamp	05-05253	$34.85
Piper Muffler Clamp With Pin 2-1/4 Id	05-04985	$35.65
Piper Pa-22 Tri-pacer / Colt Muffler	05-05254	$538.00
Piper Pa-22 Tri-pacer / Colt Tailpipe	05-05255	$184.75
Piper Pa-24-250 Comanche Tailpipe	05-05303	$133.75
Piper Muffler Clamp 2-1/2 Id	05-05305	$54.99
Piper Pa-28 140 Cherokee Muffler	05-05257	$606.00
Piper Pa-28 140 Cherokee Muffler Shroud	05-05258	$351.00
Piper Pa-28 140 Cherokee Tailpipe With Bale Assembly	05-05259	$190.75
Piper Pa-28 28-180 Cherokee Mufflers	05-05261	$421.00
Piper Pa-28r-180 200 Cherokee Arrow Muffler	05-05260	$287.95
Bale Assembly For Piper Exhaust Systems	05-05300	$49.50

LUSCOMBE & ERCOUPE FAA / PMA REPLACEMENT MUFFLERS & EXHAUST COMPONENTS

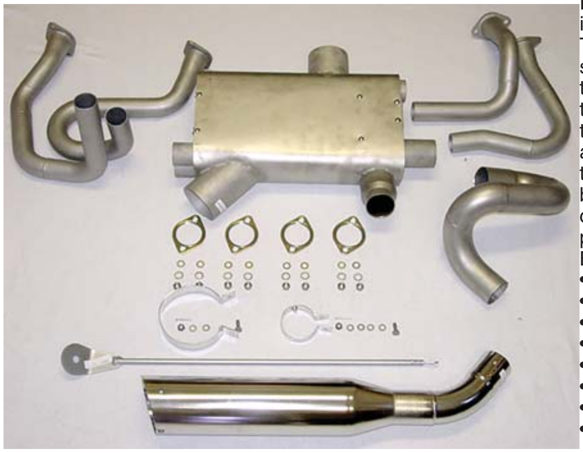


Replacement mufflers & exhaust components for Luscombe/Ercoupe Aircraft, all are FAA/PMA approved equivalents.

Note: Luscombe 8A, 8C, 8E &8F:
Replaces early style crossover.
Luscombe 8A, 8C, 8E &8F, Crossover 65 HP & Ercoupe stacks Model 415C series all have the extended-life hot aluminized mild-steel.

Description	Part No.	Price
Luscombe Exhaust Stack	05-05239	$592.00
Luscombe Lh Stack 65 Hp	05-05240	$341.00
Luscombe Rh Stack 65 Hp	05-05241	$290.95
Luscombe Cabin Heat Muff	05-05248	$229.95
Ercoupe Exhaust Stack	05-05242	$564.00
Ercoupe Lh Exhaust Stack	05-05243	$306.00
Ercoupe Rh Exhaust Stack	05-05244	$314.00
Luscombe Crossover System	05-05268	$625.00
Luscombe Crossover Rear	05-05265	$228.95
Luscombe Crossover Stack, Lh	05-05267	$283.95
Luscombe Crossover Stack, Rh	05-05266	$205.95
Continental 200 J-3 Exhaust Stacks	05-05283	$444.00
Continental 200 J-3 Exhaust Stack - Lh	05-05284	$236.95
Continental 200 J-3 Exhaust Stack - Rh	05-05285	$236.95
C85/c90 - 12 Exhaust Stacks	05-05286	$500.00
C85/c90 Exhaust Stack Lh	05-05287	$265.95
C85/c90 Exhaust Stack, Rh	05-05288	$265.95

POWER FLOW SYSTEMS INC. EXHAUST SYSTEMS



Power Flow Systems, Inc., the world leader in designing, manufacturing, and retailing of FAA Certified High Performance aircraft tuned exhaust systems.
Their Tuned Exhaust System is totally different. When you break down their exhaust system, you have two "sets" of pipes; the primary (header/collector combination) and the secondary (pipe after the collector). The primary contains four independent tubes that all join at the "4-1 Collector". As each "exhaust puff" of spent fuel travels through the primaries, it leaves a vacuum behind. In their tuned exhaust system, they have adjusted the length of each tube so that the vacuum reaches the collector just in time to "suck out" the exhaust from the next cylinder. The exhaust gases are not only being pushed out by the cylinder, but "extracted" by the vacuum, so a bigger, fresher charge will enter the cylinder during the next cycle. A tuned exhaust system really promotes a smoother, cooler, and finally more powerful running engine.

Benefits with Power Flow Systems:
- Shorter Take Off Roll
- Greatly Improves Rates of Climb
- More Usable Power
- Fuel Savings at Current Speeds
- Smoother Running Engine
- Runs cooler at Current Speeds
- Go up to 8 knots faster
- Mandrel Bent Tubes to maintain consistent interior dimension

Kit Contents:
- Kit includes everything to "bolt on" a Complete Replacement Exhaust System
- New Headers, Heater, & Muffler
- No blow gaskets, Nuts, Lock washers, Flat washers, Cotter pins etc.
- Stainless Steel Construction
- Up to 40% thicker than stock
- New Improved Heating System

Airplane	Type of System	Power Flow P/N	Our P/N	Price
Aviat Husky A1B, A1C-180 with Lyc., O-360	Classic Polished	PFS-18101	08-07279	**$5,500.00**
	Ceramic Upgrade	PFS-18101 Upgrade	08-15959	**$5,700.00**
Cessna 172 C-172 w/ O-320	Classic Polished	PFS-13204	08-00358	**$4,450.00**
	Classic Ceramic	PFS-13204-Ceramic	08-05957	**$4,650.00**
	Short Stack Polished	PFS-13204-InternalC	08-05958	**$4,450.00**
	Short Stack Ceramic	PFS-13204-InternalCCER	08-05959	**$4,650.00**
Cessna 172 or 175 C-172 w/ O-360	Classic Polished	PFS-13204-O360	08-00359	**$4,450.00**
	Classic Ceramic	PFS-13204-O360-Ceramic	08-05960	**$4,850.00**
	Short Stack Polished	PFS-13204-O360-InternalC	08-05961	**$4,450.00**
	Short Stack Ceramic	PFS-13204-InternalCCER	08-05962	**$4,650.00**
Cessna 177 C-177 w/ O-320	Classic Polished	PFS-13704	08-00360	**$4,650.00**
	Classic Ceramic	PFS-13704-Ceramic	08-05963	**$4,850.00**
	Short Stack Polished	PFS-13704-InternalC	08-05964	**$4,450.00**
	Short Stack Ceramic	PFS-13704-InternalCCER	08-05965	**$4,650.00**
Cessna 177A C-177 w/ O-360	Classic Polished	PFS-13704-O360	08-00361	**$4,650.00**
	Classic Ceramic	PFS-13704-0360-Ceramic	08-05966	**$4,650.00**
	Short Stack Polished	PFS-13704-0360-InternalC	08-05967	**$4,450.00**
	Short Stack Ceramic	PFS-13704-0360-InternalCCER	08-05968	**$4,850.00**
Cessna 177B (0-360)	Classic Polished	PFS-13705	08-00880	**$4,650.00**
	Classic Ceramic	PFS-13705-Ceramic	08-05969	**$4,850.00**
	Short Stack Polished	PFS-13704-InternalC	08-05970	**$4,650.00**
	Short Stack Ceramic	PFS-13705-InternalCCER	08-05971	**$4,850.00**
C-177RG w/ IO-360/390 **Revised Application	Classic Ceramic	PFS-15102-CERAMIC	08-07165	**$5,750.00**
	Short Stack Polished	PFS-13706	08-07163	**$5,750.00**
	Short Stack Ceramic	PFS-13706-CERAMIC	08-07164	**$5,950.00**
Lyc. O-360	Short Stack Polished	PFS-16104	08-15968	**$3,095.00**
Lyc. O-360	Short Stack Ceramic	PFS-16104-Ceramic	08-15969	**$3,295.00**
Grumman AA-5 (below serial #640)	Short Stack Polished	PFS-13801-InternalC	08-05973	**$4,450.00**
	Short Stack Ceramic	PFS-13801-InternalCCER	08-05974	**$4,650.00**
Grumman AA-5 (above Serial #640) & Grumman AA-5A	Short Stack Polished	PFS-13802-InternalC	08-05976	**$4,650.00**
	Short Stack Ceramic	PFS-13802-InternalCCER	08-05977	**$4,850.00**

Airplane	Type of System	Power Flow P/N	Our P/N	Price
Grumman AA-5B & AA-5B	Classic Polished	PFS-13803	08-00637	**$4,650.00**
	Classic Ceramic	PFS-13803-Ceramic	08-05978	**$4,850.00**
	Short Stack Polished	PFS-13803-InternalC	08-05979	**$4,650.00**
	Short Stack Ceramic	PFS-13803-InternalCCER	08-05980	**$4,850.00**
Glastar & Sportsman 2+2 Experimental/ Homebuilt	Polished	PFS-16104	08-04986	**$3,095.00**
	Ceramic	PFS-16104-Ceramic	08-05981	**$3,295.00**
Piper PA-28-140	Classic Polished	PFS-14150	08-05924	**$4,450.00**
	Short Stack Polished	PFS-14150-InternalC	08-05983	**$4,450.00**
	Short Stack Ceramic	PFS-14150 - InternalCCER	08-05984	**$4,650.00**
	Short Stack Polished	PFS-14150-Internal-InternalP	08-05987	**$4,450.00**
	Short Stack Ceramic	PFS-14150-InternalP-CER	08-05988	**$4,650.00**
Piper PA-28-150, 160 w/ Conical Mounts (Below Serial #1761)	Short Stack Polished	PFS-14151-InternalP	08-05990	**$4,450.00**
	Short Stack Ceramic	PFS14151-InternalPCER	08-05991	**$4,650.00**
	Short Stack Polished	PFS-14150-InternalP	08-05994	**$4,450.00**
	Short Stack Ceramic	PFS-14150-InternalP-CER	08-05995	**$4,650.00**
Mooney M20 (B,C,D,G) w/ O-360	Polished	PFS-16101	08-00694	**$4,650.00**
	Ceramic	PFS-16101-Ceramic	08-05996	**$4,850.00**
Mooney M20 (E,F,J) w/ IO-360	Ceramic	PFS-16201-Ceramic	08-05997	**$5,150.00**
Raytheon Beechcraft 23 (O-360)	Ceramic	PFS14152-Ceramic	08-05998	**$4,650.00**
	Ceramic	PFS-13804-Ceramic	08-06000	**$4,650.00**
	Polished	PFS-113804	08-05999	**$4,450.00**

CERAMIC UPGRADE - Hides discoloration that occurs when the stainless steel is heated. Retains silver finish and requires no maintenance or polishing.........................P/N 08-05945 .... **$850.00**

POWER FLOW EXHAUST SYSTEM FOR ROBINSON R22

R22 Tuned Exhaust Kit for R22, R22 Alpha, R22 Mariner, R22 Beta with 320-B2C engine and large oil cooler. FAA approved by STC. Installing a Power Flow tuned exhaust provides the same performance benefits as upgrading to a Beta II, at a fraction of the cost. It is true bolt-on horsepower for your O-320 powered Robinson R22 Alpha or Beta.
P/N 08-15965 ....**$7,360.00**

EP

EXHAUST SYSTEMS

All exhaust stacks are heli-arc welded using Type 321 stainless steel tubing for light weight and long service life. Stainless steel stacks weight 50% less than a set in mild steel. All stacks are custom made and the workmanship is consistently of exceptional quality.

WHEN ORDERING, SPECIFY COMPLETE MODEL NUMBER AND HP OF ENGINE AND AIRCRAFT TYPE.

STRAIGHT STAINLESS STEEL EXHAUST STACKS

Basic exhaust pipes for Pitts Special, Smith Miniplane, Acro Sport, Starduster and many other homebuilts with Lycoming engines O-235 through O-360. This exhaust system fits under the intake tubes, starting at the rear cylinders, around the front intake tube, then points aft. Two mufflers (P/N 33205) or two tail pipes (P/N 33204) can be used with this system. With stainless swivel joints for vibration dampening and for positioning of tail pipes through 25° range. Wt. 7-1/4 lbs.

SYSTEM FOR LYCOMING ENGINES THRU 180 HP

Set of two basic stacks only, consisting of:
Right Hand, P/N 33202 & Left Hand, P/N 33203
Set of Two.......................... P/N 33202/33203 .... **$987.00**
(Tail Pipes not included.)

System for Lyc. O-320B (Fuel-Injected)
Tightest system for this engine.
P/N 33270-1 .... **$975.00**
(Tail Pipes not included.)

ADD OPTIONS:

STRAIGHT TAILPIPES

P/N 33204 (14") .... **$217.95 Pr.** P/N 33204-24 (24") ... **$256.95 Pr.**
P/N 33204-18 (18") .... **$231.95 Pr.** P/N 33204-28 (28") ... **$272.95 Pr.**
P/N 33204-20 (20") .... **$244.95 Pr.** P/N 33204-36 (36") ... **$283.95 Pr.**

MUFFLER WITH 8" TAILPIPE (NO HEAT EXCHANGER)

P/N 33205 .... **$249.95 Ea.**

MUFFLER WITH 8" TAILPIPE & HEAT EXCHANGER

2" Dia. Inlet & Outlet .... P/N 33206-1 .... **$398.00 Ea.**
2-1/2" Dia. Inlet & Outlet .... P/N 33206-2 .... **$419.00 Ea.**

When ordering muffler with heat exchanger, advise if inlet & outlet pipe diameter other than 2" or 2-1/2" is preferred.
When ordering muffler with heat exchanger, advise diameter of inlet and outlet pipe preferred (2", 2-1/2" or other).

HOMEBUILDERS SPECIAL STACKS

Designed to fit Lycoming engines 0-235 to 0-360. Mild steel. These stacks do not fit Pitts Special. Applicable to many home builts. Wt. 7.25 lbs.
P/N 08-01900............. **$868.00**

STAINLESS STEEL CROSSOVER EXHAUST SYSTEMS

A exhaust system allows your engine to breathe properly by reducing back pressure and by picking up the correct firing order of the cylinders. This results in increased HP compared to an untuned exhaust. The added HP will be evident as higher takeoff RPM, higher cruise speed and lower fuel consumption. This crossover system fits all Lycoming engines from O-235 to IO-360 (180 HP) with bottom or aft mounted carburetors or fuel injection controllers. It is designed for tight cowling and in most cases no cowling modification will be necessary. If fit is the problem, custom tighter crossover systems are available by special order (Additional charges may apply). The system has slip joints between cylinders and ball joints where tail pipes or mufflers connect to collector tubes to prevent cracking due to expansion and vibration and to allow for positioning of the tail pipes. The exhaust system can be ordered in the following combinations:

1. With straight tail pipes

2. With two mufflers (no heat exchangers)

3. With two mufflers (one heat exchanger)

4. With two mufflers, both with heat exchangers.

All mufflers include removable 8" tail pipes. Heat shrouds have one inlet and one outlet for 2" or 2-1/2" flex tubing
Compression Springs - used on Exhaust System Ball Joints. 6 required per system. P/N 33703.............................. **$5.80**

STANDARD CROSSOVER SYSTEM

Basic system with all Collector Tubes (Without Tail Pipes)
P/N 33251 .... **$1,053.00**

ADD OPTIONS:
Straight Tailpipes (14")................................. P/N 33204 ..... **$217.95 Pr.**
Muffler w/8" Tailpipe (no heat exchanger) .... P/N 33205 ...... **$249.95 ea**
Muffler w/8" Tailpipe & Heat Exchanger. ...... P/N 33206-1 ... **$398.00 ea**

COMPLETE STANDARD CROSSOVER SYSTEM PRICES

Basic System with Two Straight 14'' Tailpipes.
Ass'y # 33270...... **$1,207.00**
Basic System for 0-320B w/o Tailpipes. .... Ass'y # 33270-1 ..... **$975.00**
System with 2 Mufflers, Removable 8" Tailpipes & No Heat Shrouds.
Ass'y # 33272...... **$1,495.00**
System w/2 Mufflers, 1 Heat Shroud for either Cabin heat or Carb. heat... Ass'y # 33274..... **$1,722.00**
System w/2 Mufflers, Both w/ Heat Shrouds for Cabin heat &C arb. heat... Ass'y # 33276..... **$1,884.00**
Stainless Crossover Systems for O-360 (200 HP)
Available for Front, Bottom or Rear Injector
P/N 08-05740 ...... **$1,051.00**
(Does not include tailpipes or heat muffs)

SPECIAL CROSSOVER SYSTEM FOR VERY TIGHTLY COWLED AIRCRAFT

Designed for the Thorpe T-18, RV-6, 7 7 8, Mustang II, and others using Lyc 0-320 to 0-360 engines

Basic System with all Collector Tubes — Please furnish exact engine designation to insure proper fit. P/N 33250................ **$995.00**

Special Mufflers for the T-18 with Heat Shrouds for Cabin Heat and Carb. Heat. P/N 33250-1...... **$444.00 Ea.**

Special Tailpipes for the T-18 (to be used when mufflers are not used). Comes with same ball joint as the mufflers and an attaching bracket.
P/N 33250-2....... **$285.95 Pr.**

NOTE: PRODUCTS ON THIS PAGE ARE FOR EXPERIMENTAL AIRCRAFT AND ARE NOT FAA APPROVED. ALL EXHAUST SYSTEMS ARE SPECIAL ORDER AND ARE NON RETURNABLE

EXHAUST SYSTEM FOR OSPREY AIRCRAFT

This stainless steel exhaust system is specifically designed for the Osprey Aircraft. Ideal for amphibians as the tailpipe exits vertically upward. Fits aircraft using the following engines: O-235 thru O-360.
RH & LH Stacks Only
P/N 33420......**$870.00**

ADD OPTIONS:
Muffler Only .... P/N 33422......**$236.95**
Muffler with Heat Exchanger................................P/N 33424 ... **$417.00**

EXHAUST SYSTEM FOR CONTINENTAL 0-200

This universal stainless steel exhaust system is designed for experimental aircraft using Continental A65 thru O-200 engines. Consists of 2 manifolds, left hand manifold has heat shroud with 2-1/2" connection for carb heat. Muffler outlet are 3" long. Tailpipe extensions may be required, sold separately
Mufflers ....P/N 33401 .... **$929.00**
8" Tailpipe Extensions. Furnished with slip joint and pin clamp.
P/N 33402 .... **$136.75**

THIS SYSTEM IS PATTERNED AFTER A CESSNA 150 SYSTEM, BUT WILL NOT FIT A CESSNA 150 OR 152.

EXPRESS AIRCRAFT EXHAUST MANIFOLDS Y-STYLE

Fits Lycoming IO-540 (Angle Valve Engine) (Includes Custom 2-1/4" Tailpipes With Cabin heat shroud) (Optional studding to increase cabin heat available)
P/N 08-02105 .... **$1,875.00**

WHEN ORDERING EXHAUST SYSTEMS, PLEASE SPECIFY COMPLETE MODEL NUMBER & HP OF ENGINE AND AIRCRAFT TYPE

STAINLESS STEEL STACKS FOR PUSHER TYPE AIRCRAFT

PN 33601 - Designed specifically for "Pusher Style Aircraft". Exhaust fits inside of intake tubes.

For Continental C-85 thru O-200
P/N 33601............................. **$946.00**
For Lycoming O-235 thru O-360
P/N 33602..............................**$950.00**

COZY MARK IV PUSHER EXHAUST SYSTEM

This custom stainless exhaust system was designed specifically for the Cozy Mark IV aircraft.
For Lycoming O-235 to O-360 (180 HP or less)
P/N 33702..............**$1,229.00**
For Lycoming IO-360 (200 HP) Angle Valve Engine
P/N 33702-1...........**$1,235.00**

Replacement Cozy Extension Spring
P/N 33704................**$7.85 ea**
Cozy Inside Cowl Exhaust .... P/N 08-07342.........**$1,477.00**

NOTE: PRODUCTS ON THIS PAGE ARE FOR EXPERIMENTAL AIRCRAFT AND ARE NOT FAA APPROVED. ALL EXHAUST SYSTEMS ARE SPECIAL ORDER AND ARE NON RETURNABLE

EXHAUST SYSTEM COMPONENTS

Fabricate your own exhaust system with these precision-formed type 321 stainless steel components.

STAINLESS STEEL 45˚ & 90˚ BENDS

Tubing Size	P/N	Radius	Angle	Price
1-1/2" X .035	33241	2-1/2"	90˚	**$58.80**
1-1/2" X .035	33241-4	4-12"	90˚	**$69.95**
1-1/2" X .035	33242	2-1/2"	45˚	**$64.75**
1-3/4" X .049	33236	1-3/4"	90˚	**$78.75**
1-3/4" X .035	33243	2-7/8"	90˚	**$67.85**
1-3/4" X .049	33243	2-1/2-12"	90˚	**$71.75**
1-3/4" X .035	33245	4"	90˚	**$66.75**
1-3/4" X .049	33245	4-12"	90°	**$65.80**
1-3/4" X .035	33237	5-1/2"	90˚	**$69.80**
1-3/4" X .035	33244	2-7/8"	45˚	**$62.85**
2" X .049	33238	2-1/2"	90˚	**$99.85**
2" X .035	33246	4"	90˚	**$79.85**
2" X .049	33246	4-12"	90°	**$87.75**
2-1/4" X .049	33240	2-3/4"	90˚	**$93.75**
2-1/2" X .049	33247	4"	90˚	**$99.95**
3 X .049	33248	4-1/2"	90˚	**$146.75**
2-3/4" X .049	34001	3"	90˚	**$139.50**

STAINLESS STEEL 180˚ "U" BENDS

180˚ "U" Bends w/ odd or even leg lengths.

Tubing Size	P/N	Radius	Angle	Leg Length	Price Each
1-1/2" X .035	33260	2-1/2"	180	6"/6"	**$87.75**
1-1/2" X .035	33262	2-1/2"	180	10"/10"	**$95.65**
1-1/2" X .035	33261	2-1/2"	180	11"/14"	**$89.75**
1-3/4" X .035	33265	2-7/8"	180	6"/6"	**$82.85**
1-3/4" X .035	33264	2-7/8"	180	10"/10"	**$91.75**
1-3/4" X .049	33264	2-7/8"	180	10"/10"	**$104.95**
1-3/4" X .035	33263	2-7/8"	180	11"/14"	**$89.75**

STAINLESS SWIVEL BALL JOINTS - CLAMP TYPE

Tubing I.D.	P/N	Male Sz	Female Sz	Price
1-3/4"X 1-3/4"	33231	1-3/4"	1-3/4"	**$83.75**
1-3/4"X 2"	33232	1-3/4"	2"	**$83.75**
2"X 2"	33233	2"	2"	**$89.80**
2-1/2"X 2-1/2"	33234	2-1/2"	2-1/2"	**$96.75**
2-3/4"X 2-3/4"	33235	2-3/4"	2-3/4"	**$101.75**

CUSTOM AIRCRAFT HARDWARE KIT - Ball Joint Hardware Kit. Kit Includes: (3) Nuts (3) Bolts (3) Washers (3) springs Fits 33231 thru 33234 P/N 08-07168 ....**$18.55**

HYDRO-FORMED SLIP JOINTS - TWO PIECE UNIT 4" LONG

Slip Joint Size	P/N	Expanded Length	Price
1-1/2"	33221	2-3/4"	**$52.75**
1-5/8	33226	2-5/8"	**$47.65**
1-3/4	33222	2-5/8"	**$55.75**
2"	33223	2"	**$59.75**
2-1/4"	33227	2"	**$58.85**
2-1/2"	33224	2-3/8"	**$63.95**
3"	33225	2-1/4"	**$66.75**

STUB EXHAUST STACKS

Stainless tubing 6"L welded onto stainless exhaust flange.

1-1/2"x .035 for Continental (doesn't fit 0-240)
P/N 13352 ....**$89.75**

1-3/4"x .035 for Lyc. ....P/N 13354 ....**$94.75**

STAINLESS TUBING FOR EXHAUST STACKS

Stainless type 321 welded tubing for exhaust stacks.

Tubing Size (O.D. x Wall)	P/N	Price per Ft.
1-1/2" x .035	03-16300	**$20.90**

Tubing Size (O.D. x Wall)	P/N	Price per Ft.
1-3/4" x .035	03-16400	**$22.93**
2" x .035	03-16500	**$24.85**

EP

LONG-EZ EXHAUST SYSTEM

Long-EZ exhaust system fits all Lycoming 4 cylinder engines.
P/N 08-00832 ..... **$1,152.00**

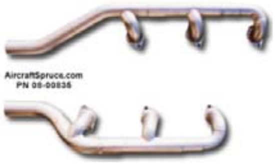
LONG-EZ EXHAUST SYSTEM INSIDE THE COWL

With this configuration the exhaust tips are located where the cooling air exits. This design eliminates cutting the cowling for exhaust exit and improves propeller efficiency by moving the exhaust pulses inboard, closer to the center of the prop hub. Fits Lycoming O-320 & O-360 parallel valve engines. P/N 08-00833.......... **$1,449.00**

BERKUT 4 PIPE EXHAUST SYSTEM

Fits all Lycoming 4 cylinder engines.
P/N 08-00834 ....**$1,257.00**

BERKUT 6 PIPE EXHAUST SYSTEM



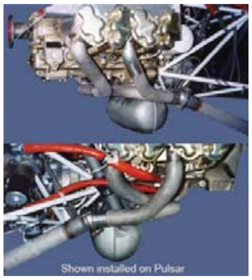
Fits 6 cylinder Berkut only. P/N 08-00835....................... **$1,365.00**

VELOCITY EXHAUST SYSTEM

Velocity exhaust system fits 6 cylinder Lycoming parallel valve and angle valve engines.
Parallel ....P/N 08-00836 ..... **$1,112.00**
Angled...........P/N 08-00837 ..... **$1,112.00**

MUSTANG II CROSSOVER EXHAUST SYSTEM

Mustang II Crossover Exhaust System Lycoming O-235 through O-360 (Comes with Custom Tailpipes) (Vertical Induction Intake)
P/N 08-07337 ....**$1,389.00**



CONTINENTAL IO-240 CROSSOVER SYSTEM

Crossover exhaust system Continental IO-240 (Tailpipe Not included)
P/N 08-07338 ....**$1,109.00**

STAINLESS STEEL EXHAUST STACKS

Manufactured from aircraft quality 321 stainless steel tubing. Set of two stacks or purchase each side individually. Patterned after Aeronca style exhaust. Fits Continental C90 Thru 0-200. Not FAA approved. Wt. 3-1/4 lbs.
Set of two
P/N 08-02001 ....**$751.00**
Right side
P/N 08-02101 ....**$422.00**
Left side
P/N 08-02201 ....**$422.00**

LANCAIR LEGACY EXHAUST SYSTEM

Lancair legacy exhaust system, left & right hand manifolds with tailpipes and cabin heat shroud. Fits IO-550 Continental.
Exh. Sys. 33805-1 ..P/N 08-00838 ..... **$1,846.00**
Exh. Sys. 470-550 ..P/N 08-02103 ..... **$1,846.00**
Legacy Exhaust ... P/N 08-02104... **$1,850.00**

6 Cylinder Continental O-470 to IO-520 Stacks - Exhaust Manifolds Y-Style L/H & R/H Continental 0-470 through IO-550 ....P/N 08-07344 ..... **$1,436.00**

GLASAIR I & II CROSSOVER EXHAUST SYSTEMS

Fits Lyc. O-320 to O-360 with vertical induction.
P/N 08-00839 ..... **$1,832.00**

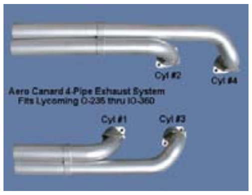
Fits Lyc. engines w/ horizontal induction up to 180HP
P/N 08-00840................. **$1,814.00**

GLASTAR CROSSOVER EXHAUST SYSTEM

Includes exhaust system with (1) heater muffler, (1) non-heater muffler and tailpipes. Fits Lycoming O-235 and O-360 with vertical induction. P/N 08-00842......... **$1,641.00**

EXPERIMENTAL SUPER CUB CROSSOVER EXHAUST SYSTEM

PN 08-02100-Fits Lycoming O-320 (Vertical Induction Intake) (Must use “short” miniature light weight Sky Tec starter for clearance) (Optional studding to increase cabin heat available)
PN 08-02102-Fits Lycoming O-360 (Vertical Induction Intake) (Must use “short” miniature light weight Sky Tec starter for clearance) (Optional studding to increase cabin heat available)
P/N 08-02100 ....**$1,875.00**
P/N 08-02102 ....**$1,875.00**



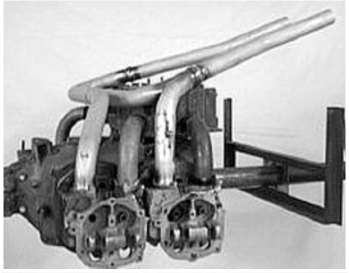
4 CYLINDER AERO CAD 4 PIPE STACKS

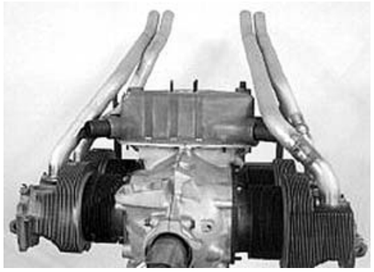
Aero-Cad 4-Pipe Exhaust Manifolds Lycoming 0-235 through IO-360 200 HP
P/N 08-07343 ....**$1,241.00**

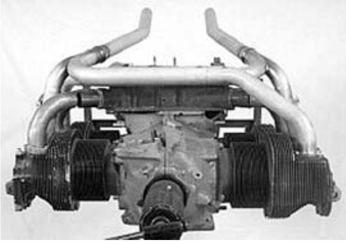
4 CYL LYCOMING CROSSOVER EXHAUST 200HP

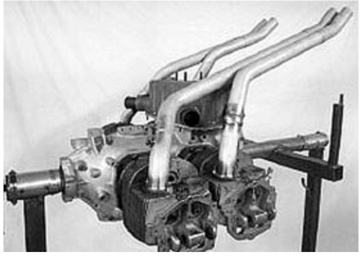
Crossover Exhaust System Lycoming IO-360 200 HP & IO-390 210 HP Angle valve engine.
NOTE: Photo shows optional tailpipes,P/N 33204-18 (08-00827) tailpipes are not included, but can be purchased seperately.
4 Cyl. Lyc. Croosover Exhaust 200HP.........P/N 08-07341 ....**$987.00**
18” Tailpipes 33204-18................................P/N 08-00827 ....**$231.95**

VETTERMAN RV EXHAUST SYSTEM







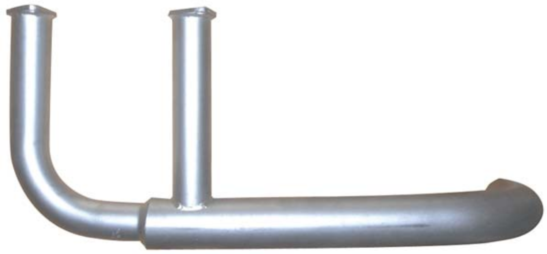


Vetterman Exhaust has been manufacturing exhaust systems for the Van's Aircraft RV series since 1990. Exhaust systems for all RV models & Van's approved engine models are available. All systems are manufactured from MIL Spec 321 stainless steel, which is mandrel bent, trimmed to length and tack welded on a Lycoming engine. This method assures the best fit possible. All systems incorporate ample slip & ball joints which greatly reduces breaking potential. All systems include blow proof gaskets, stainless exhaust nuts & washers for installation. Also include tail pipe mounting kits or pipe support brackets. Some systems also include a cabin heat muff.

AIRCRAFT	DESCRIPTION	P/N	PRICE
RV-3	O-320 Conical Mount 4 pipe sys.	08-00583	**$772.00**
RV-3	O-320 Dynofocal Mnt. 4 pipe sys.	08-00584	**$772.00**
RV-3	O-360 Dynofocal Mnt. 4 pipe sys.	08-00585	**$772.00**
RV-4	O-320 Conical Mount 4 pipe sys.	08-00586	**$767.00**
RV-4	O-320 Dynofocal Mnt. 4 pipe sys.	08-00587	**$768.00**
RV-4	O-360 Dynofocal Mnt. 4 pipe sys.	08-00588	**$768.00**
RV-4	O-320 Dynofocal Mnt. X-over sys.	08-00589	**$750.00**
RV-4	O-360 Dynofocal Mnt. X-over sys.	08-00590	**$750.00**
7-7A,8-8A, (O-360/320)	*Includes tail pipe mounting kit	08-00591	**$946.00**
RV-6,7,8,9A (O-320-H2AD)	*Includes tail pipe mounting kit	08-00592	**$1,039.00**
RV 7-7A (IO-360 AIA 200)	*Includes tail pipe mounting kit	08-00593	**$1,039.00**
RV8 (IO-360)	*Includes tail pipe mounting kit	08-00594	**$1,039.00**
RV 8A (IO-360)	*Includes tail pipe mounting kit	08-00595	**$1,039.00**

NOTE: EACH OF THESE SYSTEMS WILL NOT INTERCHANGE BETWEEN AIRCRAFT AND ENGINE MODELS. THESE SYSTEMS ARE DESIGNED AND INTENDED FOR USE ON RV AIRCRAFT ONLY. PRICES DO NOT INCLUDE SHIPPING CHARGES.

PA-11 STYLE EXHAUST STACKS



Piper PA-11 Style Exhaust Stack with Starter (Left). Experimental Use Only. Longer down pipes to clear starter, Left Hand. Can be used on Piper J-3, but some modifications of cowling may be necessary.

Starter Left..................... P/N 05-12465........... **$253.95**
Starter Right .... P/N 05-12466........... **$253.95**

SNOWLINE RV-6 & RV-6A CROSSOVER EXHAUST SYSTEM

The material used on these systems is 1-3/4" O.D. x .035 wall 321 stainless steel tubing. 2 models are available; one for Lycoming engines up to 180 H.P. and the other for the Lycoming IO-360 (200 H.P. engine). Bending is performed using an inside mandrel which the tube is drawn over during bending to maintain the inside diameter. Flanges are made from 1/4" stainless steel. This heavy material greatly reduces warping & cracking. Tail pipes are attached to the header with a slip joint. Simply slide the tail pipes onto the header, position the end of the pipe as desired in the bottom opening, and attach with the stainless steel retaining clamp. One heat muff has been provided on the front cross-tube. This muff is intended for carburetor heat. If an injection system is being used, this muff can be used for cabin heat. An optional cabin heat muff can be ordered when carburetor heat requires the use of the standard heat muff. All hardware is provided to install the system. Stainless Steel nuts, bolts, washers, blow-proof gaskets, 2 stainless clamps for attaching tail pipes to the firewall or engine mount. U-type clamp attaches the cable housing securely in place.

RV-6/RV-6A Crossover Exhaust Sys. (To 180 H.P.)
P/N 08-05790..... **$1,042.00**
Optional Cabin Heat Muff........................... P/N 08-00679........ **$156.75**

****Will not work with front mounted injectors***

The RV-6/RV-6A exhaust systems are recommended for these aircraft only. For other experimentals, the RV-4 system may fit better under cowls as it is built tighter to the engine.

VHT FLAMEPROOF COATINGS

Originally designed for NASA's reentry spacecraft. Designed to withstand temps. up to 1500°F (816°C) VHT FlameProof coatings are capable of withstanding extreme environments of spacecraft, satellites, military aircraft, and motor sports. It survives where other paints can't, shields & protects, maintains the finish, prevents rust & corrosion, and resists oils & solvents. For aircraft applications the typical use is on high temperature steel components such as exhaust & turbocharging systems.Excellent for use as a heat resistant and anti-corrosion coating on exhaust manifolds and turbine casings. Both the Flat Aluminum and Flat Black are non-facing colors.

Flat Aluminum 16 oz. aerosol spray............P/N 08-00713...........**$14.55**
Flat Black 16 oz. aerosol spray...................P/N 08-00714...........**$14.50**

THERMO-TEC HEAVY-DUTY SPRAY ADHESIVE

Thermo-Tec's new Heavy-Duty Spray Adhesive is a fast-drying, quick-bonding, high temperature contact adhesive. Use it wherever you need a secure, long-lasting, easy-to-apply bond. It is available in a generous 16.75 oz. can.

P/N 08-01026.............**$15.50**

HI-HEAT COATING

Finish off a clean and well-protected Exhaust Insulating Wrap application. Will protect the wrap from abrasion and harmful liquid spills. Extra resins and binders toughen the surface, extend the life of wrap by protecting it from friction, and seal the pores to minimize the penetration of harmful liquids. The 11 oz. coating comes in black and aluminum colors.

Black.........................P/N 08-06725...........**$11.50**
Aluminum..................P/N 08-06730...........**$11.50**
Clear.........................P/N 09-05229.............**$9.75**

EXHAUST HEAT SHIELD

This heat shield is placed on exhaust where fuel lines, cable, etc. are close to exhaust and where heat may be a problem. Mounts with stainless radiator type clamp (not included). Fits exhaust pipes up to 2.5" diameter. Very popular on RV's and other homebuilt aircraft.

Single Unit........P/N 08-00050.......... **$14.75**
Double Unit ......P/N 08-00051.......... **$21.75**

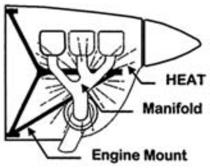
VARIEZE / LONG EZ CARBURETOR HEAT BOX

This box is an improved redesign of the original heat box. It eliminates the possibility of engine stoppage caused by worn parts plugging the carburetor intake.

Without Filter......................... P/N 08-01600.......**$194.50**
VE/LE Heat Box Repair Kit ... P/N 08-01610.........**$17.75**
VE/LE Filter Only................... P/N 08-01615.........**$39.85**
VE/LE Filter Cleaner Kit (cleaner & oil)
P/N 08-01620.........**$18.50**

ENGINE MOUNT HEAT SHIELDS

Heat damaged O-470 & O-520 engine mounts are a definite problem area. You can easily protect these engine mounts from further damage with these heat shields The aircraft manufacturers overlook providing heat protection in these areas when they designed and produced the aircraft. INSPECT ENGINE MOUNTS. Flaking paint, deterioration or pitting leads to cracking, and breakage – in other words, an UNSAFE CONDITION. If you want long-lasting protection from corrosion damage, the solution is to install custom engine mount heat shields that are FAA & STC/PMA approved.



Avoid downtime and save money on airplane maintenance with this practical new device. The heat shields are built from an extremely durable 6061-T6 aluminum alloy and install in minutes. The complete kit includes installation hardware, instructions & copy of the Supplemental Type Certificate.

For Cessnas: Heat shield kit for 180, 180A-H, 180J, 180K, 182, 182A-R...............................P/N 08-01660.....**$204.95**
Heat shield kit 185A-E,A185F. Fits Standard and 3 bladed mounts.
....P/N 08-00767.....**$245.95**
Replace. Intake Shields (heavy duty) PMA'd..P/N 08-00769.......**$35.80**

CESSNA C-180/182 HEAT SHIELD KIT

Heat related corrosion caused by the exhaust system in the bed tubes and diagonal tubes of Cessna 180/182 engine mounts has been discovered on most models. Loree Air, Inc. designed and built the first set of heat shields in 1987. They were flight tested for three years and found to stop all damage from that heat source. The heat shield kit is now FAA approved and ready for installation on your aircraft. The kit, includes all the hardware, instructions and documentation.

P/N 05-12279...........**$283.95**

50256

CARBURETOR INTAKE ASSEMBLIES (HEAT BOXES)

P/N A40599 for Continental A-65 through C-125. Also fits Lyc. 0-235, 0-290, 0-320 engines with MA3SPA, MA4SPA carburetors.
Complete assembly includes heat box, filter, gaskets. studs and pins.
Not for Certified Aircraft, Homebuilts Only.

Component	Part No.	Price
Heat Box	50256	$189.85
Filter	A40599	$85.75
Gasket	35923	$7.45
Studs (4 required)	24306	$48.76
Pins (4required)	24308	$24.49
Bottom Carb. Gasket	21323	$1.35
A40522 Assembly	08-01300	$576.00

CESSNA 150 STYLE HEAT BOX

Used on Cessna 150. Also fits Cessna 120, 140, and PA-22 Tripacer. Order filter, gaskets, studs & pins separately. Not FAA/PMA Approved.

P/N 641534............**$187.50**
Cable 'B' Nut ....P/N 05-16245...........**$11.85**

Heat Box for Cessna 170 - Similar to P/N 641534 above, but larger
P/N 08-01625.........**$250.95**

Similar to Cessna 170 box. Fits Lyc. 0-360, 0-470, etc. Uses brackett BA-5110 filter..P/N 08-01630.........**$296.00**

LYCOMING AND CONTINENTAL CARBURETOR HEAT BOXES

Lycoming O-320 and Continental A65-100 Carb Heat Boxes. The 100-320 is 2-1/2" diameter height is 1" smaller flange.

Lycoming O-320 Carb Heat Box w/Tube......... P/N 05-01388 ....**$243.95**
Lycoming O-320 Carb Heat Box w/o Tube...... P/N 05-06841 ....**$236.95**
Lycoming A65-100 Carb Heat Box w/Tube..... P/N 05-01387 ....**$246.95**
Lycoming A65-100 Carb Heat Box w/o Tube .. P/N 05-06840 ....**$239.85**

CARB HEAT BOXES FOR PUSHER AIRCRAFT

Designed for airplanes and rotorwing aircraft with engines in pusher configuration using MA3/MA4 carburetors (not MA4-5). Uses same baskets as J-3 & C-150 boxes..........................P/N 08-00855...............**$252.95**

USHER CARBURETOR HEAT BOXES

These high quality carburetor heat boxes are available for most common Lycoming & Continental engines. Not FAA approved. (Shown here with tube)

K1F Heat Box w/o tube ....P/N 08-01601.....**$163.80**
K1M Heat Box with tube.........P/N 08-01602.....**$167.75**
KO320 Heat Box with tube.....P/N 08-01603.....**$173.75**
KO360 Heat Box with tube.....P/N 08-01604.....**$173.75**
KC0320 Heat Box w/o tube....P/N 08-01603-1..**$173.75**

CARBURETOR INTAKE BOX BRACKET FOR CESSNAS

This carburetor intake box bracket mounts on top of the heat box and attaches to the engine to provide support for the heat box. Fits Cessna 150. P/N 08-01305...................**$54.75**

CARBURETOR HEAT BOX REPAIR KITS

Prevent carburetor heat box cracking - a common problem on Cessna 150 aircraft and Cont. O-200 engine. Kit consists of actuating shaft, 2 bearing assemblies and arm. Kit no. FG100 fits Cont. 0-200-A, B, C Engines. Kit No. FG105 fits Cont. 0-300-A, B, C, D, E engines.

Model FG100......................... Kit No. 08-01309........................**$76.85**
ModelFG105.......................... Kit No. 08-01310........................**$74.99**

ECONOMY CARB HEAT BOX REPAIR KITS

These kits include new shaft & bearings.
Kit for Cont. C-85, C-90, 0-200 Engine
P/N 07-00110...... **$42.75**
Kit for Cont. C-145, 0-300 Engine
P/N 07-00120...... **$42.75**

Requires FAA form 337 for installation on certified aircraft

CARB HEAT BOX ARM HOLE REPAIR KIT

Use this kit to repair an elongated hole in the carburetor heat box actuating arm. Kit comes complete with new bolt and attaching hardware made of stainless steel. P/N 07-00130.......**$13.75**

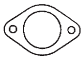
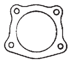
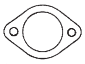
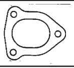
CARBURETOR INDUCTION MANIFOLD (INTAKE SPIDER)

For O-200 engine................P/N 35145A-1........ **$437.00**
For A-65,C-75,C-85 & C-90 engines.
P/N 35145............. **$359.00**

Prices Subject to Change Without Notice

RAPCO REPLACEMENT EXHAUST GASKETS

High quality, economical stainless and copper beaded gaskets. Extra thick spiral wound style available “Blow Proof”

	Style		RAPCO P/N	Use As Replacement For: OEM P/N	Airborne P/N	Superior P/N	Use on These Engine Models	Our P/N	Price Each
CONTINENTAL	Solid		RA630365	630365	N/A	SA630365	IO-360-A, C, D, G, H, J, K	08-05215	**$2.25**
	Spiral Wound		RA970	N/A	970	N/A	IO-360-A, C, D, G, H,J, K TSIO-360-A, B	08-05270	**$7.75**
	Solid		RA632837	632837 21493	157	SA 632837	A-65, A-75,C-85-12F, C-90-8F,12F, 14F, -16F,E-165,E-185,E-225,O-200-A,B,O-300-A,C,D,O-470-A,E,J	08-05237	**$1.65**
	Spiral Wound		RA627429	627429	999	SA 627429	E-165, E-185, E-225O-200-A, B, O-300-A, C, DO-470-A, E, J	08-05229	**$8.50**
	Solid		RA631544	631544 537379	158	SA631544	O-470-B, G, K, L, M,P, R, S, U	08-05244	**$3.35**
	Spiral Wound		RA628260	628260	972	SA628260	O-470-B, G, K, L, M,P, R, S, U,IO-470-D, U, V, TSIO-470-B TSIO-520-B, C, D GTSIO-520-C, D	08-05260	**$7.75**
LYCOMING	Solid		RA75118	75118 73720 67196 77611	160	N/A	0-290,0-320,IO-320,0-340,0-360,HO-260-B,IO-360-A,-B,-C,HIO-360-A,-B-C,V0-435,TVO-435,G0-480,GSO-480,ISGO-480,O-540-A,-B,-E,-G,IO-540-A,-C,-D,-G,-J,-K,IG0-540-A,IGS0-540-A,10-720-A	08-05218	**$3.00**
	Spiral Wound		RA77611	77611	1000	SL77611		08-05211	**$8.95**
	Solid		RALW15619	LW15619 74756	161	SL15619	TIO-541	08-05219	**$5.35**
	Spiral Wound		RALW15486	LW15486	971	N/A		08-05286	**$12.95**
	Solid		RA985	3503			R-985-AN-1,-3,-4,-6,-6B,-10,12,-12B,-14B	08-64452	**$7.95**

REPLACEMENT GASKET FOR WOODWARD GOVERNORS

Part Name	Approved Replacement for Part No.	Model Eligibility	Part No.	Price
Engine Accessory Drive Gasket	Woodward Gov. 206684 Pratt & Whitney 3039526	PT6A-20/20A/-20B/-21/-25C/-27/-28/-34/-34AG/-34B/-36/-38/-41/-42/-42A/-60A/-60AG/-61/-67A/-67AF/-67AG/-67B/-67D/-67R/-67T PT6A-45A/-45B/-45R/-65B/-65AG -65AR/-65R/-114/-114A/-135/-135A	08-06264	**$146.75**
Governor Gasket	Woodward Gov. 206685 Pratt & Whitney 3118953-01	PT6A-6/-6A/-6B/-11/-11AG/-15AG/-20/-20A/-20B/-34/-34AG/-34B/-36/-38/-41/-42/-42A/-45/-45A/-45B/-45R/-60A/-60AG/-61/-65B/-65R/-65AG/-65AR/-67/-67A/-67AF/-67AG/-67B/-67D/-67R/-67T/-110/-112/-121	08-07154	**$69.75**

LYCOMING ASSEMBLY DRIVE GASKET SL73818

Lycoming Assembly Drive Gasket SL73818. Replacement for Textron Lycoming P/N 73818.

P/N 08-00306 .... **$6.61**

2577256 PRECISION AIRMOTIVE GASKET PEX-1

Gasket part number 365533 is no longer available from Precision Airmotive. The new gasket, part number 2577258 is available and should be used in place of 365533.

P/N 07-01312..............................**$0.40**

TCM VACUUM PUMP GASKET 653487

TCM vacuum pump gasket 653487. This is for the Continental 0200 and the 0470.

P/N 08-00297..............................**$2.05**

SILICONE VALVE COVER GASKETS

P/N 05-11925

Model No.	Application	# in Set	Part No.	Price
GB-530162	A-65; C-75,85,90,145,175; O-200; O-300	4	05-11925	**$43.75**
GB-534857	0-470; IO-470; IO-520; IO-550; TSIO-520; TSIO-550	6	05-11926	**$78.65**
GB-632310	IO, TIO, TSIO-360	12	05-11927	**$73.85**
GB-646234	--	6	05-11928	**$54.75**
GB-75906	O-235; O-290; O-360	4	05-11930	**$54.85**
GB-67193	IO-360; GO-480; IO-540; TIVO-540, IO-720	6	05-11931	**$72.00**
GB-71450	IO-540-B; TIO/LTIO-540-A	6	05-11932	**$72.00**

THESE GASKETS ARE NOT FAA APPROVED.

EP

REAL PREMIUM SILICONE VALVE COVER GASKETS

REAL are twice as thick as typical gaskets and have been hot oil and dry heat tested at 300°F. Only REAL gaskets seal uneven surfaces, eliminate corrosion, and reduce maintenance costs. They may be reused, are installed dry, and maintain screw torque. Indefinite shelf life. Highly recommended by Rutan Aircraft Factory.

Part No.	Model No.	Product	Description	Price
08-13810	RG-08527-10	Valve Cover Gaskets	Package of 10 PMA Approved. Fits Models: Ken Royce 90-5G, 110-7F, 110-7G. Le Blond Engine 85-5F, 90-5F.	$39.99
08-13876	RG-117236-18	Valve Cover Gaskets	Package of 18 PMA Approved. Fits Models: Wright Early R-1820-40, R-1820-60, R-1820-70, R-1820-87, R-1820-95, R-1820-97 (4 Holes), R-2600-20, R-2600-22, R-2600-29A, R-2600-35, R-3350-23, R-3350-23A, R-3350-57, R-3350-59.	$70.75
08-13801	RG-1302-42-4	Valve Cover Gaskets	Set of 4. de Havilland Gipsy	$28.50
08-13879	RG-138861-18	Valve Cover Gaskets	Package of 18 Fits Models: Wright Late R-1300, R-1820-55, R-1820-66, R-1829-56, R-1829-71, R-1829-72W, R-1829-76, R-1829-80, R-1829-86 (6 Holes).	$70.75
08-13864	RG-139203-36	Valve Cover Gaskets	Package of 36 PMA Approved. Fits Models: Pratt & Whitney R-2800-CB Series.	$141.80
08-13814	RG-1843-18	Valve Cover Gaskets	Package of 18 PMA Approved. Fits Models: Lycoming R-680 Series.	$72.75
08-13872	RG-2677-18	Valve Cover Gaskets	Package of 18 PMA Approved. Fits Models: 975-11, Whirlwind (4 Holes).	$70.80
08-13874	RG-2767-18	Valve Cover Gaskets	Package of 18 Fits Models: Wright J6-5, J6-7, J6-9 (2 Holes).	$70.75
08-13806	RG-30106-14	Valve Cover Gaskets	Package of 14 PMA Approved. Fits Models: Jacobs L-6.	$56.75
08-13808	RG-4331-14	Valve Cover Gaskets	Package of 14 PMA Approved. Fits Models: JACOBS R-755 Series.	$63.75
08-13804	RG-5171-18	Valve Cover Gaskets	Package of 18 Fits Models: Huoasi Model 6, Nanchang CJ6A, Yak Model 18.	$66.99
08-13869	RG-7926-14	Valve Cover Gaskets	Package of 14 Fits Models: Warner 165-185 For 4 cylinders.	$54.75
08-13862	RG-88962-18	Valve Cover Gaskets	Package of 18 PMA Approved. Fits Models: Pratt & Whitney R-1340, R-1830, R-200 to R-2000, R-2800 (3 Holes).	$73.75
08-13822	RG-90560-18	Valve Cover Gaskets	Package of 18 PMA Approved Fits Models: Pratt & Whitney R-985 Series, Wasp Jr. (4 Holes).	$74.75
08-13811	RG-08527	Valve Cover Gaskets	1 each PMA Approved. Fits Models: Ken Royce 90-5G, 110-7F, 110-7G. Le Blond Engine 85-5F, 90-5F.	$4.35
08-13877	RG-117236	Valve Cover Gaskets	1 each PMA Approved. Fits Models: Wright Early R-1820-40, R-1820-60, R-1820-70, R-1820-87, R-1820-95, R-1820-97 (4 Holes), R-2600-20, R-2600-22, R-2600-29A, R-2600-35, R-3350-23, R-3350-23A, R-3350-57, R-3350-59.	$3.95
08-13802	RG-1302-42	Valve Cover Gaskets	1 each de Havilland Gipsy	$6.95
08-13880	RG-138861	Valve Cover Gaskets	1 each Fits Models: Wright Late R-1300, R-1820-55, R-1820-66, R-1829-56, R-1829-71, R-1829-72W, R-1829-76, R-1829-80, R-1829-86 (6 Holes).	$3.95
08-13865	RG-139203	Valve Cover Gaskets	1 each PMA Approved. Fits Models: Pratt & Whitney R-2800-CB Series.	$4.35
08-00782	RG-14724	Valve Cover Gaskets	1 each. PMA Approved Fits Models: Franklin 6A8-215, B8F, B9F.	$10.55
08-01322	RG-17727	Valve Cover Gaskets	1 each. PMA Approved Fits Models: Franklin 6A-350; 4A-235; 6A4-150-B3, -B4, -B5, -B6; 6A4-165-B3, B4, B6; 6A4-200-C6; 6AS-350; 6AS-335.	$8.50
08-13821	RG-17799-1	Valve Cover Gaskets	1 each Fits Model: Menasco D4	$7.50
08-13816	RG-1843	Valve Cover Gaskets	1 each PMA Approved. Fits Models: Lycoming R-680 Series.	$4.35
08-13796	RG-20254	Valve Cover Gaskets	1 each PMA Approved Fits Models: Continental W-670 Series.	$4.75
08-13795	RG-20254-14	Valve Cover Gaskets	1 package of 14 PMA Approved Fits Models: Continental W-670 Series.	$64.75
08-13875	RG-2676	Valve Cover Gaskets	1 each Fits Models: Wright J6-5, J6-7, J6-9 (2 Holes).	$3.95
08-13871	RG-2677	Valve Cover Gaskets	1 each PMA Approved. Fits Models: Wright 975-11, Whirlwind (4 Holes).	$32.75
08-13807	RG-30106	Valve Cover Gaskets	1 each PMA Approved. Fits Models: Jacobs L-6.	$4.35
08-13809	RG-4331	Valve Cover Gaskets	1 each PMA Approved. Fits Models: JACOBS R-755 Series.	$4.65
08-13784	RG-45483	Valve Cover Gaskets	1 each. Fits Models: Lycoming O-145 Series.	$13.55
08-13805	RG-5171	Valve Cover Gaskets	1 each Fits Models: Huoasi Model 6, Nanchang CJ6A, Yak Model 18.	$3.75
08-13870	RG-7926	Valve Cover Gaskets	1 each Fits Models: Warner 165-185.	$4.35
08-13863	RG-88962	Valve Cover Gaskets	1 each PMA Approved. Fits Models: Pratt & Whitney R-1340, R-1830, R-200 to R-2000, R-2800 (3 Holes).	$4.35
08-13823	RG-90560	Valve Cover Gaskets	1 each PMA Approved Fits Models: Pratt & Whitney R-985 Series, Wasp Jr. (4 Holes).	$4.35
813813	RG-941	Valve Cover Gaskets	1 each PMA Approved. Fits Models: KINNER B-54 (2 Holes).	$4.35
08-13815	RG-942	Valve Cover Gaskets	1 each Fits Models: R-56 (4 Holes). Variants: KINNER R-5, R-53, R-55, R-56.	$4.35
08-01321	RG-71450	Valve Cover Gasket (9 holes)	1 each. PMA Approved Fits Models: Lycoming IO-540-B, E, M Series; TIO/LTIO-540-A.	$9.50
08-01317	RG-534857	Valve Cover Gasket (8 holes)	1 each. PMA Approved. Fits Models: Continental IO-346, O-470, IO-470, IO-520, IO-550, TSIO-520-Series.	$10.50
08-01316	RG-67193-SP	Valve Cover Gasket (8 holes)	1 each. PMA Approved Fits Models: Lycoming IO-360, IO-540, IO-720, GO-480, TIVO-540, VO/GO-435, VO-540.	$8.50
08-07384	RG-76036	Valve Cover Gasket (8 holes)	1 each PMA Approved Fits Models: Lycoming TO-360-C, TO-360-F, TIO/TIGO-541.	$10.50
08-01320	RG-532451	Valve Cover Gasket (7 holes)	1 each PMA Approved Fits Models: Continental E-165-2, E-185, E-225, O-470-A, O-470-E, O-470-J, IO-470-J, IO-470-K.	$8.75
08-01315	RG-530162	Valve Cover Gasket (6 holes)	1 each. PMA Approved Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300.	$8.50
08-01314	RG-75906-SP	Valve Cover Gasket (6 holes)	1 each. PMA Approved Fits Models: Lycoming O-235, O-290, O-320, IO-320, O-360, IO-360, HIO-360, O-540, IO-540, TIO-540-CIA.	$9.50
08-01319	RG-632459	Valve Cover Gasket (5 holes)	1 each PMA Approved. Fits engines: Continental TSIO-520-Series; GTSIO-520-C,D,F,H,K,L,M,N; IO-550-G	$4.65
08-01318	RG-632310	Valve Cover Gasket (4 holes)	1 each. PMA Approved. Fits Models: Continental IO-360, TSIO-360, LTSIO-360.	$4.55
08-13765	G-IV-A2	Valve Cover Gasket - Spanish Model	Set of 4. Bucker Tigre	$35.99
08-13769	RG-533355	Oil Filler Cap Gasket	1 ea. PMA Approved Size: 1/8 x 2 5/16 x 1 1/2 Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, E-185, E-225, GO-300, IO-346, IO-360, IO-470, IO-470-J, IO-470-K, IO-520, IO-550, O-200, O-300, O-470, O-470-A, O-470-E, O-470-J, LTSIO-3	$6.50
08-13777	RG-535823	Oil Filler Cap Gasket	1 each. PMA Approved. Size: ID 1 1/8 x OD 1 3/4 Thickness 1/8 Fits Models: Continental IO-346, O-470, IO-470, IO-520, IO-550, TSIO-520-Series.	$5.95

Prices Subject to Change Without Notice

Part No.	Model No.	Product	Description	Price
08-13773	RG-633240	Oil Filler Cap Gasket	1 each PMA Approved. Size: ID 1 1/2 x OD 2 5/16 Thickness 1/16 Fits Models: Continental E-185, E-225, IO-470-J, IO-470-K, IO-346, IO-360, IO-520, IO-550, O-470, IO-470, O-470-A, O-470-E, O-470-J, LTSIO-360, TSIO-360, TSIO-520-Series.	$6.50
08-13778	RG-642892	Oil Filler Cap Gasket	1 each. PMA Approved Size: 1/8" X 1-1/2" X 2-5/16" Fits Models: Continental IO-360, TSIO-360, LTSIO-360.	$6.50
08-13786	RG-225	Fuel Cap Gasket	1 each Size: 2 1/4 OD x 1 3/8 ID 1/8 thickness for Cessna.	$7.95
08-13787	RG-250	Fuel Cap Gasket	1 each Size: 2 1/16 OD X 1 1/2 ID X 1/8 thickness for Piper.	$8.50
08-13766	RG-2551	Fuel Cap Gasket	1 each Made of nitrile. For Cessna 170. Size: 4 1/4 OD X 3 1/4 ID X 3/16 thickness.	$16.50
08-13790	RG-5172	Fuel Cap Gasket	1 each Fits Models: Yak.	$6.90
08-13763	RG-G0001	Rocker Cover Gasket E-113C	Set of 2. Aeronca	$21.50
08-13867	RG-7601	Rocker Cover Gasket	1 each Fits Models: Warner 145.	$4.85
08-13799	RG-24335	Pushrod Tube Gasket	1 each PMA Approved Fits Models: Continental W-670 Series.	$3.80
08-13818	RG-690-D	Pushrod Tube Gasket	1 each PMA Approved. Fits Models: Lycoming R-680 Series.	$3.60
08-13781	RG-18532-H	Top Cover Gasket - Helicopter	1 each. PMA Approved Size: 1/16 thick Fits Models: Franklin 4A-235, 6A4-150, 6A4-165, 6A4-200, 6AS-350, 6AS-335.	$29.65
08-00783	RG-18532-A	Top Cover Gasket - Airplane	1 each. PMA Approved Size: 1/8 thick Fits Models: Franklin 6A4-145-A3, 6A4-150, 6A4-150-B3, 6A4-165-B3, 6A-350-C1/C2, 6V4-200 SERIES, 6V-335 SERIES, 6V-350-A/B, 6VS-335-A/B, 6VS-335-A1A/A1B, YO-335-5, O-335-5/5A/5B/6/6B.	$24.50
08-13788	RG-300	Fuel Tank Cap Gasket	1 each Size: 3 OD X 2 ID by 1/16 thickness for Piper.	$7.95
08-13791	RG-753121	75 Fuel Tank Gasket	1 each Fits Models: Stearman.	$21.50
08-13768	RG-3577	Oil Sump Gasket	1 ea. PMA Approved Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200.	$7.50
08-00781	RG-10366	Oil Pan Gasket	1 each PMA Approved. Size: 1/16 thick. Fits Models: Franklin 6A4-145-A3, 6A4-150-B3, 6A4-165-B3, 6V4-178-B33, 6V4-200-C32/C33, 6V-335-A/B, 6A-350-C1/C2, 6A-335-B/B1, 6VS-335-A/B, 6VS-335-A1A/A1B.	$31.50
08-13767	RG-530928	TCM Lifter Cover Gaskets	1 ea. PMA Approved. Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300.	$3.35
08-13764	RG-G0014	Tappet Cover Gasket for E-113C	1 each. Aeronca	$9.00
08-13800	RG-20268	Lifter Body Gasket	1 each PMA Approved Fits Models: Continental W-670 Series.	$1.77
08-13803	RG-71294	Gipsy Rocker Cover Gasket	1 each - de Havilland Gipsy or Alpha Romeo radial engine	$8.50
08-13621	RG-72059	Dipstick Tube Base Gasket	1 each. PMA Approved Fits Models: Lycoming IO-320, IO-360, IO-540, IO-540-B, E, M Series, HIO-360, O-235, O-290, O-320, O-360, O-480, O-540, TIO/LTIO-540-A.	$6.50
08-13820	RG-1111-C	Pushrod Tube Seal	1 each FMA-PMA Approved Fits Models: Lycoming R-680 Series.	$5.35
08-13819	RG-1111-C-18	Pushrod Tube Seal	Package of 18 FMA-PMA Approved Fits Models: Lycoming R-680 Series.	$91.75
08-13798	RG-20266	Pushrod Tube Nut Seal	1 each PMA Approved Fits Models: Continental W-670 Series.	$4.35
08-13797	RG-20266-14	Pushrod Tube Nut Seal	1 package of 14 PMA Approved Fits Models: Continental W-670 Series.	$56.75
08-13783	RG-17864-1	Push Rod Tube Seal	1 each. PMA Approved Takes 4 seals per cylinder. Fits Models: Franklin 4A-235, 6A4-150, 6A4-165, 6A4-200, 6AS-350, 6AS-335, 6A4-150.	$3.85
08-13782	RG-17864-4	Push Rod Tube Seal	Set of 4. PMA Approved Takes 4 seals per cylinder. Fits Models: Franklin 4A-235, 6A4-150, 6A4-165, 6A4-200, 6AS-350, 6AS-335, 6A4-150.	$15.50
08-13775	RG-534610	Push Rod Tube Seal	1 each. PMA Approved. Fits Models: Continental IO-346, O-470, IO-470, IO-520, IO-550, TSIO-520-Series.	$4.35
08-13776	RG-534610-4	Push Rod Tube Seal	Set of 4. PMA Approved. Fits Models: Continental IO-346, O-470, IO-470, IO-520, IO-550, TSIO-520-Series.	$15.50
08-00779	RG-17794	Pushrod Tube Seal Lower	1 each. PMA Approved Takes 2 per cylinder. Fits Models: Franklin 4A-235, 6A4-165, 6A4-200, 6AS-350, 6AS-335.	$4.65
08-01327	RG-360PRT-6	Pushrod Tube Seal Kit - Six Complete Cylinders	6 Cylinders. PMA Approved. Real Gasket Corporation has received FAA-PMA approval for improved design pushrod tube seals for continental engines. The seals are designed to provide 37% more sealing area at the point of contact with the pushrod tube, a	$84.75
08-01323	RG-520PRT-6	Pushrod Tube Seal Kit - Six Complete Cylinders	6 Cylinders. PMA Approved. Real Gasket Corporation has received FAA-PMA approval for improved design pushrod tube seals for continental engines. The seals are designed to provide 37% more sealing area at the point of contact with the pushrod tube, a	$129.75
08-01328	RG-360PRT-1	Pushrod Tube Seal Kit - One Complete Cylinder	1 Cylinder PMA Approved. Real Gasket Corporation has received FAA-PMA approval for improved design pushrod tube seals for continental engines. The seals are designed to provide 37% more sealing area at the point of contact with the pushrod tube, and	$13.50
08-01326	RG-520PRT-1	Pushrod Tube Seal Kit - One Complete Cylinder	1 Cylinder. PMA Approved. Real Gasket Corporation has received FAA-PMA approval for improved design pushrod tube seals for continental engines. The seals are designed to provide 37% more sealing area at the point of contact with the pushrod tube, an	$23.50
08-13779	RG-550GPR-1	Pushrod Tube Seal Kit - One Complete Cylinder	1 Cylinder. PMA Approved. Real Gasket Corporation has received FAA-PMA approval for improved design pushrod tube seals for continental engines. The seals are designed to provide 37% more sealing area at the point of contact with the pushrod tube, an	$16.50
08-13772	RG-200-D	Pushrod Tube Seal Kit - 1 Cyl for New Continental Cylinder	1 each Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300.	$26.99
08-13774	VSC-2	TCM 6-Cylinder 470/520/550 Spring Compressor Tool	1 each. Fits Models: Continental E-185, E-225, IO-346, IO-470, IO-470-J, IO-470-K, IO-520, IO-550, IO-550G, O-470, O-470-A, O-470-E, O-470-J, TSIO-520-Series, TSIO-520-BE.	$69.75
08-13615	VSC-1	TCM 4-Cylinder Spring Compressor	1 each A Good tool for PRT installation. Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300.	$62.75
08-13770	RG-200-RSW	Replacement Seal & Washer Kit for RG-200PR	1 Cylinder FAA-PMA approved. Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300.	$36.60
08-13771	101BR	Ultra Copper Silicon	1 each Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300.	$10.50
08-13793	RG-8-32-BPS-20	Baffle Seal Fastener - Aluminum Binding Post & Screw Kit	1 package of 20 pieces A package of 10 pair (post and screw) = 20 pieces.	$14.80

TCM MAGNETO GASKET 649954

P/N 05-11920..............................**$0.98**

TCM 649989 OIL COOLER GASKET

P/N 08-13252.......................... **$2.02**

FUEL PUMP GASKET - 649962

P/N 08-13567..............................**$2.26**

PT-6 NOZZLE GASKET

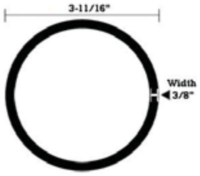
PT-6 Nozzle Gasket. Replacement part for Pratt & Whitney 3029566.
P/N 05-15099.......................... **$2.75**

LYCOMING PROP GOVERNOR GASKET

Propeller governor gasket for Lycoming 0-320 A & E Series engines. P/N 72053 .... **$1.54**

LW12681 LYCOMING MAGNETO GASKET

Lycoming Magneto Gasket model # LW12681. For Lycoming 0320 all letter designations EXCEPT the "H" series.
P/N 08-00285 .... **$1.87**



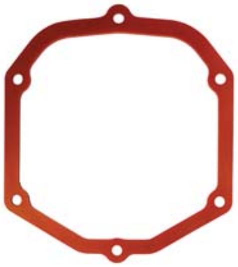
TCM OIL GASKETS

TCM 654553 Gasket, 12 Bolt Oil Cooler Gaskets for Continental Engines. (Old style crankcase)
P/N 06-02793......................................**$20.87**
TCM 654555 Oil Cooler Gasket for Continental Engines P/N 06-02162.....................**$14.82**

1/8 INCH SILICONE VALVE COVER GASKETS

Valve cover gaskets are manufactured from a silicone rubber compounded especially for lubricating oil resistance and low compression set. It has a recommended temp. operating range of –67 to 446 F and will remain flexible while operating in the noted temp. range. One of the biggest benefits of replacing the factory cork gaskets with the Silicone rubber gaskets is that they are reusable and are easy to work with and are 1/8" thick silicone rubber.

Image	OEM Part No.	Application	PN	Price
	75906-SP	Lycoming O-235, O-290, O-320, IO320, O-360, IO-360, HIO-360, O-480, O-540, IO-540	05-11181	**$9.80**
	71450	Lycoming IO-540-B, E, M series, TIO/LTIO-540-A	05-11182	**$12.50**
	67193	Lycoming IO-360, VO/GO-435, GO-480, IO-540, VO-540, TIVO-540, IO-720	05-11183	**$9.80**
	632310	Continental IO-360, TSIO-360, LTSIO-360	05-11184	**$6.75**
	632459	Continental GTSIO-520 series, IO-550-G, TSIO-520-BE	05-11185	**$6.99**
	530162	Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300	05-11186	**$9.80**



"O" SERIES LYCOMING VALVE COVER GASKETS

Note: 08-05882 is similar to 67193 and RG-67193 but not FAA Approved for Certified Aircraft. 08-01187 is similar to 75906 and RG-75906 but not FAA Approved for Certified Aircraft.

These homebuilder's Lycoming valve cover gaskets replace the original cork gaskets which come standard on Lycoming 0-235, 0-320 and 0-360 engines. These new gaskets are molded from high temperature silicone rubber and do not harden over time so they can be re-used again and again. This hi-tech silicone rubber offers a much lower compression set, so it is superior at maintaining an oil-tight seal for the life of the engine. NOT FAA approved. For experimental aircraft only. P/N 08-01187 .... **$4.95**

ANGLED VALVE "IO" SERIES LYCOMING VALVE COVER GASKETS

These gaskets are for the fuel injected "IO" series, sometimes referred to as the Angle Valve cylinder Lycoming, as well. these gaskets are molded from the same high-temperature silicone rubber as the "O" series gaskets above, and do not harden over time, so they can be reused again and again.This hi-tech silicone rubber offers a much lower compression set, so it is superior at maintaining an oil-tight seal for the life of the engine. They are not FAA approved and are not manufactured under a PMA. These are similar to Lycoming part number 67193 used on Angled valve Lycoming engines IO-360, IO-540, IO-720. P/N 08-05882 .... **$6.85**

EXHAUST MANIFOLD NUTS

Part No.	Thread Size	Type	Engine Application	Price
21247	1/4-28	Brass	Cont., E185, IO470, IO520, GTSIO520 , LTSIO520, TSIO520, IO550, IOF5550, TSIO550, TSIOF550, TSIOL550	$3.65
22022	5/16-24	Brass	Continental: A-65, C-75 thru C-90, O-200, O-300	$1.25
STD1410	5/16-18	Steel	Lycoming	$1.47

GASCOLATOR GASKETS

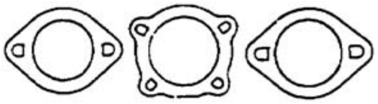
Gascolator Gasket, Manufactured from fuel resistant “Buna Rubber” material.

Description	Part Number	Price
2-1/4” OD. x 1/16” Buna and Cork material	05-11188	$9.50
2” OD. x 1/8” Buna Rubber material	05-11190	$7.75
2-1/8” OD. x 1/8” Buna Rubber material	05-11189	$7.99
2-1/4” OD. x 1/8” Buna Rubber material	05-11187	$7.99
2-1/4” OD. x 3/16” Buna Rubber material	05-11191	$8.80

OIL COOLER GASKET SETS

Our P/N	Continental P/N	Price ea.
08-76510	76510	$2.19

BLO-PROOF EXHAUST GASKETS



These gaskets are manufactured in a 1-piece design in 7/64” thick steel. They have a split metal inner ring which provides an absolute seal and they are guaranteed not to blow off. Engine manufacturer’s parts.

Continental P/N 627429 for all A, C and E Series ....**$8.50 Ea**
Continental .... P/N 628260 for 0-470-R .**$10.50 Ea**
Lycoming P/N 77611 for 4 & 6 Cylinder Engines..................... **$9.66 Ea**

EXHAUST GASKETS

Continental P/N 21493 (now P/N 632837 stainless steel)

Cont.#21493 for A-65 to 0-300....................P/N 08-05237 ...... **$1.65 Ea**
Cont. #632837 Stainless Steel....................P/N 08-13232 ...... **$1.76 Ea**
Lycoming 0-320 except h series ....P/N 77611 ....**$9.66 Ea**

AIRBORNE BLO-PROOF GASKETS

Side view
Cross Section

2 gaskets used per cylinder, with raised beads interlocked facing the exhaust stack flange. Eight required for 4 cyl. engine, 12 for 6 cyl. engine.

Engine Model Number	Airborne P/N (Use 2/ Cyl.)	Price Each
All Lycoming Engines except IO-540-B,-E,-M,-WD,IGO-540-B,IGSO-540-B,TIO-540 series,TIO-541 series TIGO-541 series, IO-540-B,-E,-M,-WD,IGO-540-B,IGSO-540-B	160	$46.50
TIO-540 Series, TIO-541 Series, TIGO-541 Series	161	$13.30

STEEL EXHAUST STACK FLANGES

MILD STEEL

Cont. A&C Series,0-200,0-300.......P/N 33011 .... **$12.50 Ea**
Lycoming 0-235 to 0-540 ....P/N 33021 ...... **$9.50 Ea**

STAINLESS STEEL

Continental A & C Series ....P/N 33101 .... **$15.50 Ea**
Continental IO-470 thru IO-520......P/N 33103 .... **$15.50 Ea**
Lycoming 0-235 thru IO-360 ....P/N 33102 .... **$14.90 Ea**
Lycoming IO-540 ....P/N 33104 .... **$15.50 Ea**

LYCOMING STUDS

Description	Part No.	Price
25-22 Lycoming Stud-.250-20 X 2.75 LONG	07-18027	$136.80
25-27 Lycoming Stud-.250-20 X 3.38 LONG	07-14783	$76.75
25-8 Lycoming Stud-.250-20 X 1.00 LONG	07-14785	$19.00
25-8-P03 Lycoming Stud-.250-20 X 1.00 LONG	07-14786	$67.04
25C-10 Lycoming Stud-.250-20 X 1.25 LONG	07-14787	$12.60
25C-10-P03 Lycoming Stud-.250-20 X 1.25 LONG	07-14788	$17.67
25C-10-P07 Lycoming Stud-.250-20 X 1.25 LONG	07-14789	$539.02
25C-11 Lycoming Stud-.250-20 X 1.38 LONG	07-14790	$13.55
25C-11-P03 Lycoming Stud-.250-20 X 1.38 LONG	07-14791	$59.66
25C-11-P07 Lycoming Stud-.250-20 X 1.38 LONG	07-14792	$38.15
25C-12 Lycoming Stud-.250-20 X 1.50 LONG	07-14793	$20.88
25C-12-P03 Lycoming Stud-.250-20 X 1.50 LONG	07-14794	$32.60
25C-14 Lycoming Stud-.250-20 X 1.75 LONG	07-14795	$53.92
25C-14-P03 Lycoming Stud-.250-20 X 1.75 LONG	07-14796	$102.92
25C-14-P12 Lycoming Stud-.250-20 X 1.75 LONG	07-14797	$73.89
25C-16 Lycoming Stud-.250-20 X 2.00 LONG	07-14798	$108.85
25C-18 Lycoming Stud-.250-20 X 2.25 LONG	07-14799	$235.65
25C-19 Lycoming Stud-.250-20 X 2.38 LONG	07-14800	$80.49
25C-19-P03 Lycoming Stud-.250-20 X 2.38 LONG	07-14801	$133.34
25C-20 Lycoming Stud-.250-20 X 2.50 LONG	07-14802	$59.54
25C-21 Lycoming Stud-.250-20 X 2.63 LONG	07-14803	$23.96
25C-21-P03 Lycoming Stud-.250-20 X 2.63 LONG	07-14804	$63.66
25C-22 Lycoming Stud-.250-20 X 2.75 LONG	07-14805	$17.50
25C-22-P03 Lycoming Stud-.250-20 X 2.75 LONG	07-14806	$91.93
25C-22-P07 Lycoming Stud-.250-20 X 2.78 LONG	07-14807	$158.92
25C-24 Lycoming Stud-.250-20 X 3.00 LONG	07-14808	$55.88
25C-29 Lycoming Stud-.250-20 X 3.63 LONG	07-14809	$89.06
25C-31 Lycoming Stud-.250-20 X 3.88 LONG	07-14810	$42.31

EP

EXHAUST STUDS FOR CONTINENTAL ENGINES

These high quality exhaust/engine studs produced from corrosion resistant 321 stainless steel in 5/16" X 18"-5/16" X 24" standard thread size are a direct replacement for the TCM Continental part number 402-151 stud. FAA/PMA approved for the Continental engines C-75, C-85, C-90, O-200 series engines, and o-300 (early) series engines.

P/N 08-07282.......................... **$9.85**

Stud for Continental Engines O-470, IO-470 (1/4”x20-1/4”x28)

P/N 08-07281.......................... **$8.85**

STAINLESS STEEL EXHAUST STUDS FOR LYCOMING ENGINES

Produced from corrosion resistant 321 in 5/16 x 18 standard thread size and are a direct replacement for the Lycoming part number 31C12 stud. Stop stud corrosion and rust out problems, stop expensive cylinder repair costs cause by broken studs, allow easy removal of exhaust systems for gasket replacement or inspection, but does not feature a safety wire hole (refer to p/n 08-06780 for safety wire hole feature). FAA approved for all Lycoming engines from 0-235 through 0-540.

CAD Plated Steel with out Safety Wire Hole ..... P/N 08-06279...... **$6.19**
Stainless Steel With safety wire hole feature .... P/N 08-06780.... **$11.50**

STA-FLATZ INTAKE CLAMP

Machined from billet 6061 aluminum and finished with gold anodize. This will reduce your chance of induction leaks, especially turbo charged engines! Experimental only. Not FAA approved.

P/N 08-13906 .... **$42.65**

EXHAUST INSULATING PRODUCTS

HIGH VELOCITY EXHAUST JACKET

An innovative way to insulate and block radiant heat. Cover the tubes vertically allowing for a consistent fit. The fit allows the exhaust system to expand as it comes up to operating temperatures without restrictions and provides air space for added insulation. Uses Thermal Conduction Technology (TCT), developed by Thermo-Tec, and can be applied with the headers in the vehicle.
4–6 cyl. kit.......P/N 08-00597.... **$76.75**
8 cyl. kit..........P/N 08-00598.... **$99.75**

SPARK PLUG WIRE HEAT SHIELD

The ultimate protection for spark plug wires and boots from conductive and radiant heat. The dual-purpose sleeve has a surface that reflects over 90% of radiant heat, while the inside silica-based fabric prevents conductive heat from penetrating. P/N 08-00612..**$18.50**

TURBO KIT

Designed to protect, improve performance, and eliminate turbo lag of a turbo charger. Fits a wide variety of turbines. The custom cut-to-fit kit comes with an excessive amount of material to cover turbos from the smallest automotive application to heavy-duty truck applications.
4 cyl. kit .... P/N 08-00613..**$103.75**
6–8 cyl. kit .... P/N 08-00614..**$124.90**

MUFFLER/CAT HEAT SHIELD KIT

The 40"x 24" mylar Heat Shield is made up of woven silica with a flexible mylar finish. Can be installed between the catalytic converter, muffler, or any other component to reflect radiant heat away from the undercarriage of the car. The kit includes all necessary fasteners. P/N 08-00616.............**$68.75**

HEAT TERMINATOR ULTRA-LITE

Made of the highest-quality insulating materials available today. The material is made of a highly-textured aluminum composite surface on one side, with a high-temperature silica felt center and a durable mylar composite facing. Uses Thermal Conduction Technology (TCT), developed by Thermo-Tec.
8"x 12" ......P/N 08-00617....**$71.75** 10"x 18"....P/N 08-00618.**$101.75**
18"x 18" ....P/N 08-00619..**$123.75** 18"x 24"....P/N 08-00620.**$130.99**
24"x 24" ....P/N 08-00621..**$139.75** 24"x 36"....P/N 08-00622.**$147.85**

STARTER HEAT SHIELD

Starters take in a lot of damaging heat that destroys the windings of the starter & solenoid. The Starter Heat Shield will reflect over 90% of radiant heat, adding life to the starter and assuring reliable starts. The Starter Heat Shield is a universal kit that fits all starters. P/N 08-00611.................. **$29.50**

THERMO SHIELD

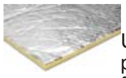
Thermo-Shield protects hoses & wires from radiant heat. Used in applications where it is difficult or not practical to disconnect one end of the hose or wire. The adhesive-backed composite construction tape can easily be wrapped around the hose or wire to make a clean, professional appearance. 15"x 1.5" roll. P/N 08-00602.................. **$18.75**

THERMO–FLEX

Thermo-Flex Aluminum is a composite heat shield material with unlimited uses. The material is manufactured with a combination of materials to provide abrasion-resistance, thermal insulation, and physical containment of hoses and wiring. The combination of aluminum, silica, and stainless steel is combined to produce a sleeving that is flexible, lightweight, and strong. The aluminum-silica combination can be slit for applications such as wire looms or hose covering without disconnecting the ends of the wire or hoses. Thermo-Flex Aluminum can withstand extreme temperatures of up to 750°F. Packaged in 10 ft. lengths.
5/8" ....P/N 08-00623......**$48.85** 1.25"..... P/N 08-00626......**$69.95**
0.75" ......P/N 08-00624......**$52.75** 1.5"....... P/N 08-00627......**$79.75**
1" ....P/N 08-00625......**$63.75** 3".......... P/N 08-00628....**$133.75**

COOL-IT PLUG WIRE SLEEVES

This unique spark plug & ignition wire protector comes in five sporty colors; red, orange, blue, black & natural.These dual-purpose sleeves enhance performance, reduce misfires, extend plug wire life and will not react with petroleum products. The double-wall construction keeps the wire and boot cooler in a high-temperature engine. Its universal size fits most boots, is easy to install & non-flammable.
4-Pack.....P/N 08-01027.....**$27.90** 6-Pack..... P/N 08-01030..**$43.70**



COOL-IT MAT

Use the Cool-It Mat to battle excessive heat and noise that penetrate the driver compartment through the firewalls and floorboards. It is also perfect in doors, under hoods, and above transmission housings. The highly-reflective mylar reflects heat away from surfaces, while the foil side is orientated away from the heat source to conduct any penetrating heat across its surface thus providing the ultimate in heat protection. The silica blanketing is a duel-density composite and is the main sound insulator. It is easy to trim and can be applied with the push-in fasteners provided or any weather strip adhesive. P/N 08-00610......................... **$37.70**

THERMO–SLEEVE

Lamination of a high-temperature fabric to a highly-reflective foil is the makeup of Thermo-Sleeve, which provides protection from radiant heat for hoses and wires. Thermo-Sleeve's ultra light-weight construction provides more insulating than traditional bulky rubber-coated fiberglass. The aluminized sleeving reflects over 90% of radiant heat, and is fireproof & oil resistant. Comes packaged in 12-ft lengths, and sold in 5 different inside diameter sizes.
12' 1/2" ID........................P/N 08-00605.............**$54.75**
12' 1" ID...........................P/N 08-00606.............**$74.75**
12" 1-1/2' ID.....................P/N 08-00607.............**$92.75**
12' 2" ID...........................P/N 08-00608...........**$108.50**
12" 2-1/2" ID...................P/N 08-00609...........**$129.95**

HEAT BARRIER - ADHESIVE BACKED

Aluminized Heat Barrier is made up of woven silica with a flexible aluminized finish. The highly reflective surface of the material is capable of withstanding radiant temperatures in excess of 2000°F. The adhesive backed composite construction material can easily be applied to any surface or wrapped around a hose or wire to make a clean professional appearance. Note: Clean surface before applying. Adhesive is rated up to 300° F. Don't apply to any parts of exhaust system. This product is designed to block radiant heat only!
12" x 12" ....P/N 08-00630..........**$12.90**
12" x 24" ....P/N 08-00600..........**$21.80**
24" x 50 foot Roll............P/N 08-07660........**$695.00**

HEADER MANIFOLD BLANKET

The Header Manifold Blanket provides excellent heat-retention for exhaust headers and manifolds. This flexible heat shield simply clips into place on the upper portion of the header. The fabric side of the material should be facing the heat source, and the aluminized side facing away, offering protection from abrasion and harmful liquid spills. Available in two sizes: (2) 20" by 24" blankets for V6 & V8 applications, and (1) 36" x 40" blanket for straight 6 & 4 cylinder engines.
20"x24" .... P/N 08-00603..............**$94.75**
36"x40" .... P/N 08-00604..............**$87.50**

GRAPHITE BLACK WRAP

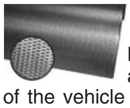
Traditionally, high-heat coating spray had to be applied to the exhaust wrap to color it black. Now new Graphite Black Wrap eliminates the process of coating the wrap with its patented Thermal Conduction Technology (TCT) high-heat color pigment. Graphite Black Wrap is available in 2" widths, in 50-ft rolls.

Size	Part No.	Price
1" x 15	08-11153	**$10.50**
1" x 50	08-11021	**$31.50**
2" x 15	08-11154	**$17.50**

Size	Part No.	Price
2" x 25	09-05231	**$26.50**
2" x 50	08-00596	**$52.75**
2" x 100	08-11023	**$94.75**

GENERATION II COPPER HEADER WRAP

Generation II Copper Header Wrap uses a proprietary coating developed by Thermo-Tec; improved Thermal-Conduction-Technology (T-C-T). Creates more horsepower & reduces underhood temps, increases exhaust scavenging, withstands continuous heat up to 2000ºF, contains no asbestos. Sold in 1" or 2" wide, 50 ft rolls with low profile 1/16" thickness.
1"X50................P/N 08-11031..........**$31.50**
2"X50................P/N 08-11032 ....**$52.75**



ICRO LOUVER AIR SHIELD

Lightweight yet durable. Features micro air louvers, which allow air to flow through the metal shield. The movement of the vehicle creates dynamic air flow, cooling by natural convection. The textured surface created by the micro air louvers creates more area for heat dissipation. The Micro Louver Air Shield is flexible yet durable; it bends and flexes easily by hand, making a custom fit trouble-free.
24"X24".............P/N 08-11720..........**$53.75**
48"X24".............P/N 08-11740..........**$92.95**

THERMO-TEC CARBON FIBER EXHAUST INSULATING WRAP

Produced utilizing pulverized Lava rock called basalt. It is extremely pliable, resistant to discoloration and can withstand 2000 degrees Fahrenheit in direct continuous contact.
1"X50................P/N 08-13902..........**$35.60**
2"X50................P/N 08-13903 ....**$54.85**

EXHAUST INSULATING WRAP

The original Exhaust Insulating Wrap was developed over 14 years ago by Thermo-Tec. Exhaust Insulating Wrap is an innovative way to create more horsepower and reduce under-hood temperatures.Wrapping headers maintains hotter exhaust gases that exit the system faster through decreased density. Increased exhaust scavenging is produced, along with lower intake temperatures. Exhaust Insulating Wrap withstands continuous heat up to 2000°F, and contains no asbestos. Thermo-Tec exhaust wrap will not over-insulate a system when properly installed due to a proprietary coating developed by Thermo-Tec -- Thermal Conduction Technology (TCT) -- that conducts heat across the wrap's surface. This coating controls heat build-up and dissipation. The Header Wrap is sold in 2" wide, 50'rolls with a low profile 1/6" thickness.

Size	Part No.	Price
1" x 15	08-11151	$9.85
1" x 50	08-11001	$29.95
2" x 15	08-11152	$16.50

Size	Part No.	Price
2" x 25	09-05230	$25.85
2" x 50	09-41600	$49.90
2" x 100	08-11003	$93.85

EXHAUST WRAP KITS

Now you can get everything you need for a complete, professional installation of our Exhaust Insulating Wrap, all in one package.Kits include Exhaust Insulating Wrap, Hi-Heat Coating and Snap Strap; available in Black and Original.

2" Original, 1 Roll............................P/N 08-07204 ....**$62.75**
2" Original, 2 Rolls..........................P/N 08-07205 ....**$115.00**
2" Black, 1 Roll ....P/N 08-07206 ....**$68.75**
2" Black, 2 Rolls..............................P/N 08-07207 ....**$117.50**

CLAMP ON HEAT SHIELDS

Flexible clamp on pipe heat shield blocks over 95% of the damaging radiant heat of the exhaust.Provides the ultimate in protection. The kits come complete with all clamps and new stainless stand offs. Installs in minutes. Incorporate Thermo-Tec's proprietary coating technology developed by Thermo-Tec, Thermal Conduction Technology.

6"X 1'........................P/N 08-07073 ....**$27.50**
6" X 2' ....P/N 08-07074 ....**$39.90**

SNAP STRAPS

The multi-purpose stainless steel Snap Straps are used to secure the Exhaust Insulating Wrap -- and more. The high-temperature stainless steel straps have a narrow profile to fit tight spots, and can be cut to the exact length needed. Snap Straps secure with easy-to-use slide-through fasteners. .

9" 12 pack ....P/N 08-13150 ....**$28.90**
18" 6 pack.......................P/N 08-13160 ....**$19.60**
9" 4 pack, 18" 2 pack......P/N 09-05232 ....**$18.50**

ALUMINIZED HEAT BARRIER STOPS UNWANTED HEAT TRANSFER

Keep heat where you want it with this hi-tech aluminized heat blanket. Thickness, 0.060". Furnished in 3 sizes.

18" x 20" ....P/N 09-05234 ....**$24.60**
36" x 20" ....P/N 09-05233 ....**$47.55**
36" x 40" ....P/N 08-06735 ....**$89.85**

KEVLAR HEAT SHIELD

Can be used for various uses: As a header blanket, Improve driver comfort, Protect engines components, Continuous heat up to 1100 degrees F, and Reflects 90% of radiant heat up to 3000 degrees F. * Size: 26" x 40" x .062"(thick) Sheet P/N 08-07162 ....**$109.75**

KEVLAR MUFFLER COVER

Handles continuous temperatures up to 1100deg F. Reduces radiant heat inside vehicle. Dampens muffler noise and vibration. Includes stainless steel straps for installation. Neat attractive appearance and is abrasion resistant. P/N 08-07201.............**$143.75**

EXPRESS SLEEVES

Express Sleeves are just the thing that our customers have been looking for. An new easy to use sleeving which is a combination of a high temperature insulation material to a highly reflective mylar foil with a Velcro closure. The sleeving is designed to provide maximum protection for wires, hoses, and cables from the very damaging effect of radiant heat with an easy application. Simply pull apart the material, wrap around the wire, and re-close the sleeving. Express Sleeves reflect over 90% of radiant heat, is fireproof and fire resistant, and just looks good. Express Sleeves come in 1 1/2" diameter in 3', & 12' lengths.

Size	Part No.	Price	Size	Part No.	Price
1-1/2" X 3"	09-02060	$29.95	1/2" x 3	08-07202	$27.50
1-1/2" X 12"	09-02061	$111.75	1/2" x 12	08-07203	$95.75

ZIRCOFLEX™ FLEXIBLE CERAMIC HEATSHIELD

A flexible ceramic heat shield material that offers superb thermal barrier performance at minimal weight and minimal thickness. A thin aluminum backed foil, it is lightweight at only 460g/m(2) and only 0.25mm thick. It is however, robust and easy to handle. It can be cut and installed by hand or machine, and is easily fixed in place using mechanical fasteners or high temperature adhesives. Each piece is 35.4" X 21.5" (900mm x 550mm.)

Ceramic Heatshield .... P/N 08-07214...**$154.75**
Double sided adhesive tape attachment kit....... P/N 08-07215.......**$8.95**
Stainless Steel Strapping kit............................. P/N 08-07216.....**$17.85**

ZIRCOFLEX I (SINGLE THICKNESS)

This is ZircoFlex® I in its single thickness (original) format. The material offers superb thermal barrier performance at minimal weight and minimal thickness. It is produced as a thin aluminum backed foil.

Description	Size	Part No.	Price
Zircoflex I Mini Roll	400mm x 100mm (Approx. 16" x 4")	08-07635	$20.95
Zircoflex I Small Sheet	297mm x 210mm (Approx. 12" x 8")	08-07636	$28.95
Zircoflex I Medium Sheet	550mm x 450mm (Approx. 22" x 18")	08-07637	$73.75
Zircoflex I Small Sheet with Adhesive	297mm x 210mm (Approx. 12" x 8")	08-07646	$37.50
Zircoflex I Medium Sheet with Adhesive	550mm x 450mm (Approx. 22" x 18")	08-07647	$146.85
Zircoflex I Large Sheet with Adhesive	900mm x 550mm (Approx. 35" x 22")	08-07648	$147.75

EP

ZIRCOFLEX III (TRIPLE THICKNESS)

This is an engineered triple thickness ZircoFlex® format that offers yet more thermal performance coupled with significant rigidity when compared to the original ZircoFlex I® material. It is produced as an aluminum backed matrix.

Description	Size	Part No.	Price
Zircoflex III Small Sheet	297mm x 210mm (Approx. 12" x 8")	08-07643	$51.95
Zircoflex III Medium Sheet	550mm x 450mm (Approx. 22" x 18")	08-07644	$126.75
Zircoflex III Large Sheet	900mm x 550mm (Approx. 35" x 22")	08-07645	$255.95
Zircoflex III Small Sheet with Adhesive	297mm x 210mm (Approx. 12" x 8")	08-07653	$54.75
Zircoflex III Medium Sheet with Adhesive	550mm x 450mm (Approx. 22" x 18")	08-07654	$129.75
Zircoflex III Large Sheet with Adhesive	900mm x 550mm (Approx. 35" x 22")	08-07655	$259.85

ZIRCOFLEX ACCESSORIES

Double Sided Adhesive Tape........................... P/N 08-07215.......**$8.95**
Stainless Steel Attachment Kit .... P/N 08-07216.....**$17.85**

PT-6 INSULATION BLANKET

PT-6 Insulation Blanket Pratt TSO 3011755. Replacement part for Pratt & Whitney 3011755.
P/N 05-15101 ....**$417.00**

THERMO-GUARD FR

Thermo-Guard FR offers the best in heat and sound insulation. This lightweight, durable shield does everything: reduces sound, absorbs vibration, protects from radiant heat and provides an extra layer of insulating padding. The product features 100% synthetic fiber felt that provides sound and comfort control and high-tech foil heat barrier that blocks more than 90% of radiant heat.

48"x72" 1-Sided ....P/N 08-01028 ....**$49.50**
48"x72" 2-Sided ....P/N 08-01029 ....**$68.85**